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(71) Applicant: Japan Energy Corporation Tokyo-to 105-8407 (JP)

(72) Inventors:

- TOBE, Masanori Japan Energy Corporation Toda-shi, Saitama 335-8502 (JP)
- ISOBE, Yoshiaki Japan Energy Corporation Toda-shi, Saitama 335-8502 (JP)

- TOMIZAWA, Hideyuki Japan Energy Corporation Toda-shi, Saitama 335-8502 (JP)
- MATSUMOTO, Mitsuhiro Japan Energy Corporation Toda-shi, Saitama 335-8502 (JP)
- NAGASAKI, Takahiro Japan Energy Corporation Toda-shi, Saitama 335-8502 (JP)
- OBARA, Fumihiro Japan Energy Corporation Toda-shi, Saitama 335-8502 (JP)
- (74) Representative:
  Zieblg, Marlene, Dr. Dipl.-Chem. et al
  Schützenstrasse, 15-17
  10117 Berlin (DE)

#### (54) NOVEL QUINAZOLINE DERIVATIVES

(57) Quinazoline derivatives represented by the general formula (1) or a pharmaceutically acceptable salt thereof in said formula R¹ is nitro or halogen; R² and R⁴ are each hydrogen,  $C_{1-4}$  alkyl, carboxyl, or  $C_{2-5}$  alkoxycarbonyl; R³ is hydrogen, amino, optionally substituted  $C_{1-4}$  alkyl,  $C_{1-4}$  alkanoyl, or  $C_{2-5}$  alkoxycarbonyl; W is carbon or nitrogen; and m is 0 to 2.

$$R^{2}$$
 $R^{2}$ 
 $R^{3}$ 
 $R^{4}$ 
 $(1)$ 

#### Description

Technical Field

[0001] The present invention relates to novel quinazoline derivatives useful as medicament, more particularly to novel quinazoline derivatives having an action inhibiting the production of TNF-α, IL-4 and IL-5 and the pharmaceutically acceptable salts thereof.

#### Background Art

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[0002] TNF- $\alpha$  is a peptide consisting of 157 amino acids and having a molecular weight of about 17,000, and one of cytokines produced from various cells including macrophage. TNF- $\alpha$  was found at first as a cytokine which induced hemorrhagic necrosis in tumor portions, but through subsequent studies it has been made clear that its actions range not only over tumor cells but also over many normal cells and it shows a variety of activities. Examples thereof are antitumor activity through cytostatic and cytopathic effects against tumor cells, regulation of differentiation and multiplication through the induction of apoptosis, inhibition of the lipoprotein lipase activity of fat globules, development of HLA antigen of vascular endothelial cells and fibroblast, activation of neutrophile and generation of superoxide and so forth.

Of these functions, for example regarding Inflammation, TNF-α acts on all the cells which are involved in Inflammation, produces or induces cytokines, such as IL-6, IL-8 and GM-CSF, and cell adhesive molecules, such as ICAM-1, and plays a part in many phenomena observed at the time of inflammation, such as production and induction of, for example, prostagladin E2 and protease, cell differentiation and activation, bone resorption, and proliferation of synovial cells. And, it is understood as a cytokine which extensively participates in the biophylaxis through the immune reaction against inflammation (Masatoshi Yamazaki: Cytokine 94-From the basic to latest information-; Nippon Igaku Kan, 109-117 (1994), Vassalli. P., Ann. Rev. Immunol., 10, 411(1992)).

[0003] On the other hand, it has come clear that a continuous or excess production of TNF-α, in contrast with the above, acts on normal cells and causes various diseases. For example, it is reported that TNF-α is increased in the joint synovia and blood of rheumatoid arthritis patients (Tetta, C., Camussi, G., Modena, V., Vittorio, C. D., Baglioni, C., Ann. Rheum. Dis. 49, 665(1990)) and that in the clinical test using anti-TNF-α antibody this shows a remarkable effect (Elliott, M. J., Maini, R. N., Feldman, M., Kalden, J. R. et al., Lancet, 344, 1105(1994), Elliot, M. J., Maini, R. N., Feldman, M. et al., Lancet, 344, 1125(1994), E. C. C. Rankin, E. H. S. Choy, et al., British J. Rheum., 34, 334(1995)). Concerning the septic shock, too, TNF-α is one of causes thereof and it is reported that in the experiment using anti-TNF-α antibody this has a inhibitory effect (Starnes, H. F., Jr., Pearce, M. K., Tewarl, A. et al., J. Immunol., 145, 4185 (1990), Beutler, B., Milsark, I. W., Cerami, A. C., Science, 229, 869(1985), Hinshaw, L. B., Tekamp-olson, P., Chang, A. C. K. et al., Circ. Shock, 30, 279(1990)). Further, the participation of TNF-α is suggested also regarding inflammatory bowel diseases such as ulserative colitis and Crohn's disease (Murch, S., Walker-Smith, J. A., Arch. Dis. Child, 66, 561(1991), Masahiro Maeda, Digestive Organ and Immunity, 22, 111(1989)), and it is reported that in the clinical test in which anti-TNF-α antibody is used the effect is demonstrated (Hendrik, M. VanDullemen, Sander, J. H. VanDeventer, et al., Gastroenterology, 109, 129(1995)).

[0004] It is also suggested that the excess production of TNF-α plays a part in diseases such as osteoarthritis (Venn, G., Nietfeld, J. J., Duits, A. J., et al., Arthritis Rheum., 36, 819(1993)), multiple sclerosis (Sharief, M. K., Hentges, R., N. Engl. J. Med., 325, 467(1991)), Behcet's disease (Akoglu, T., Direskeneli, H., Yazici, H., Lawrence, R., J. Rheumatol., 17, 1107(1990)), systemic lupus erythematodes (SLE)(Maury, C. P. J., Teppo, A-M., Sharief, M. K., Arthritis Rheum., 32, 146(1989)), rejection at the time of the bone marrow transplantation (Nestel, F. P., Price, K. S., Seemeyer, T. A., Lapp, W. S., J. Exp., Med., 175, 405(1992)), hepatitis (Kozo Kanno, Liver, 33, 213(1992) and type II diabetes (Hotamisligil, G. S., Shargill, N. S., Spiegelman, B. M., Science, 259, 87(1993)).

[0005] Further, it is reported that, also in allergic diseases such as asthma, allergic dermatitis and allergic rhinitis, the excess production of TNF- $\alpha$  participates in the pathologic aggravation of the diseases (Shah, A., Church, M. K., Holgate, S. T., Clin. Exp. Allergy., 25, 1038(1995)). Particularly, in asthma, not only the excess production of TNF- $\alpha$  but also the excess production of IL-4 and I1-5 as cytokines plays a part of the worsening of the disease, and the presence of them is actually confirmed in the affected part of a patient (Hamid, Q. M., Azzawi, M., Sun Ying, et al., J. Clin. Invest., 87, 1561(1991), Bradding, P., Roberts, J. A., Britten, K. M., et al., Am. J. Respir. Cell. Mol. Biol., 10, 471 (1994)). IL-4 induces B cells to produce the IgE antibody and besides has a function of differentiating and multiplying the type 2 helper T-cell. The IL-5 has actions such as activation, differentiation and multiplication, and extension of life of eosinophilic leukocyte and plays an important role in allergic Inflammation. Accordingly, it is considered that a therapeutic medicament which inhibits the excess production of not only TNF- $\alpha$  but also IL-4 and IL-5 is more desirable for improving the pathosis of asthma.

[0006] As mentioned above, it has become clear that the excess production of TNF-a, IL-4 or IL-5 adversely affects

the diseases above-mentioned, and there is desired research and development on a compound inhibiting the production of TNF- $\alpha$ , IL-4 and IL-5 as a therapeutic medicament for such diseases.

[0007] As the compounds which show an action of inhibiting the production of TNF- $\alpha$ , the followings are enumerated.

[0008] JP-A-10-130149 discloses that quinolone derivatives are useful as a TNF-α production inhibitor.

[0009] JP-A-11-1481 discloses that piperidinylphthalazine derivatives are useful as a TNF- $\alpha$  production inhibitor.

[0010] Pentoxifylline having the 7-methylxanthine skeleton is known as a compound showing the production inhibitory action on TNF-α (Ward, A., Clissold, S. P., Drugs, 34, 50(1987), Semmler, J., Gebert, U., Eisenhut, T., Biochem. Biophys. Res. Commun., 155, 1230(1988), Zabel, P., Schade, F. U., Schlaak, M., Immunobiology, 187, 447(1993)).

[0011] Besides, as compounds or factors showing the action inhibiting the TNF- $\alpha$  production, there are known hitherto glucocorticoid, protease inhibitor, phospholipase A2 inhibitor, lipoxygenase inhibitor, PAF (platelet aggregating factor) antagonist and anti-TNF- $\alpha$  antibody. These compounds, however, may have side effects due to their various pharmacological actions, raising the problem regarding their use, and development of a safe drug having a new mechanism is longed for.

[0012] Meanwhile, many compounds are known which have the quinazoline skeleton. For example, there are mentioned the followings as quinazoline derivatives in which the 6-position has a nitro group or halogen atom and the 4-and 7-position have N-containing substituents.

[0013] Journal of Medicinal Chemistry (J. Med. Chem.), 39, 267(1996) describes that a 4-anilinoquinazoline derivative has an Inhibitory action on phosphorylation of EGF receptors.

[0014] WO98/14431 discloses that quinazoline derivatives are useful as an inhibitor of phosphorylation of PDGF receptors.

[0015] WO98/08848 discloses that quinazoline derivatives are useful as synthetic intermediates for imidazoquinazolines derivatives which are useful as an inhibitor of cGMP-specific phosphodiesterases.

#### Disclosure of the Invention

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[0016] The present Invention provides a novel compound which has an inhibitory action on the production of TNF- $\alpha$ , IL-4 or IL-5 and which is useful for the treatment of diseases in which the continuous or excess production of TNF- $\alpha$ , IL-4 or IL-5 is considered to play a part in the start of the diseases, such as rheumatoid arthritis, septic shock, inflammatory bowel diseases, osteoarthritis, multiple sclerosis, Behcet's disease, systemic lupus erythematodes (SLE), rejection at the time of the bone marrow transplantation, hepatitis, type II diabetes, asthma, allergic dermatitis and allergic rhinitis, or provides a pharmaceutically acceptable salt thereof.

[0017] The inventors studied hard to solve the above-mentioned problem and found, as a result, that the quinazoline derivatives represented by the following general formula (1) and the salts thereof have an inhibitory action on the production of TNF- $\alpha$ , IL-4 and IL-5, thus accomplishing the present invention. The compounds of the present invention indicated by the general formula (1) are novel compounds which are not included in any of the related art. Further, none of the related art describes that the compounds of the present invention indicated by the general formula (1) possesses an action inhibiting the production of TNF- $\alpha$ , IL-4 and IL-5.

[0018] That is, the present invention includes the following inventions.

(i) A quinazoline derivative of the general formula (1) or a pharmaceutically acceptable salt thereof:

$$R^2$$
 $R^3$ 
 $(CH_2)_m$ 
 $(1)$ 

[wherein R¹ represents nitro group or halogen atom; R² and R⁴ represent hydrogen atom, alkyl group having 1 to 4 carbon atoms, carboxyl group, or alkoxycarbonyl group having 2 to 5 carbon atoms; R³ represents hydrogen atom, amino group, unsubstituted or substituted alkyl group having 1 to 4 carbon atoms, alkanoyl group having 1 to 4 carbon atoms or alkoxycarbonyl group having 2 to 5 carbon atoms; W represents carbon atom or nitrogen

atom; m represents 0 to 2; X represents a group represented by the following formula (a), (b) or (c):

$$A-N-\left(CH\right)_{a}^{B}B \qquad (a) \qquad A-N-\left(CH_{2}\right)_{a}^{B}W$$

$$A-N-\left(CH_{2}\right)_{a}^{B}W \qquad (b)$$

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[wherein R<sup>5</sup> represents hydrogen atom, or unsubstituted or substituted alkyl group having I to 4 carbon atoms; R<sup>6</sup> represents hydrogen atom, unsubstituted or substituted alkyl group having 1 to 4 carbon atoms, hydroxyl group, unsubstituted or substituted aryl group, carboxyl group, or alkoxycarbonyl group having 2 to 5 carbon atoms (if n is two or more, each R<sup>6</sup> may be the same or different); n represents 0 to 3; W represents carbon atom or nitrogen atom; A represents a single bond to quinazoline ring; and B represents a single bond to Y]; Y represents, if X is represented by the formula (a), single bond or CH<sub>2</sub>, if X is represented by the formula (b), single bond, CO, CH<sub>2</sub>, CONH, CSNH or SO<sub>2</sub>, if X is represented by the formula (c), single bond, CO, CH<sub>2</sub> or SO<sub>2</sub>; and Z represents unsubstituted or substituted aryl group, or unsubstituted or substituted heteroaryl group.]

- (ii) A compound according to the above (i), wherein R1 in the general formula (1) is nitro group or fluorine atom.
- (iii) A compound according to the above (i) or (ii), wherein R<sup>2</sup> and R<sup>4</sup> in the general formula (1) are hydrogen atom or alkyl group having 1 to 4 carbon atoms.
- (iv) A compound according to any one of the above (i) to (iii), wherein R<sup>3</sup> in the general formula (1) R<sup>3</sup> is hydrogen atom.
- (v) A compound according to any one of the above (i) to (iv), wherein W in the general formula (1) is nitrogen atom.
- (vi) A compound according to any one of the above (i) to (v), wherein X in the general formula (1) is represented by the formula (a), and R<sup>5</sup> and R<sup>6</sup> in the general formula (1) are hydrogen atom.
- (vii) A compound according to any one of the above (i) to (vi), wherein n in the formula (a) is 1 or 2.
- (viii) A compound according to any one of the above (i) to (v), wherein X in the general formula (1) is represented by the formula (c).
- (ix) A compound according to any one of the above (i) to (vii), wherein Z in the general formula (1) is phenyl, substituted phenyl, thienyl, furyl or pyridyl.
- (x) A medicament comprising a quinazoline derivative according to any one of the above (i) to (ix) or a pharmaceutically acceptable salt thereof as effective ingredient.
- (xi) A medicament for treating the diseases caused by the excess production of TNF- $\alpha$ , comprising a quinazoline derivative according to any one of the above (i) to (ix) or a pharmaceutically acceptable salt thereof as effective ingredient.
- (xii) A medicament for treating the diseases caused by the excess production of IL-4, comprising a quinazoline derivative according to any one of the above (i) to (ix) or a pharmaceutically acceptable salt thereof as effective ingredient.
- (xiii) A medicament for treating the diseases caused by the excess production of IL-5, comprising a quinazoline derivative according to any one of the above (i) to (ix) or a pharmaceutically acceptable salt thereof as effective ingredient.

[0019] Concretely, the present invention relates to the quinazoline derivatives of the formula (1) or the salts thereof and relates to inhibitors of TNF- $\alpha$ , IL-4 or IL-5 production which contain them as an effective ingredient. More concretely, the present invention relates to therapeutic medicaments which contain a quinazolone derivative of the formula (1) or a salt thereof as an effective ingredient, for rheumatoid arthritis, septic shock, inflammatory bowel diseases, osteoarthritis, multiple sclerosis, Behcet's disease, systemic lupus erythematodes (SLE), rejection at the time of the bone marrow transplantation, hepatitis, type II diabetes, asthma, allergic dermatitis and allergic rhinitis and the like.

- [0020] The compounds of the present invention will be explained more in detail.
- [0021] Each substituent in the general formula (1) will hereinunder be explained concretely.
- [0022] In the general formula (1), R<sup>1</sup> represents nitro group or halogen atom, in which nitro group, chlorine atom or fluorine atom is preferable, and nitro group is most preferable.
  - [0023] In the general formula (1), R<sup>2</sup> and R<sup>4</sup> represent hydrogen atom, alkyl group having 1 to 4 carbon atoms, carboxyl group or alkoxycarbonyl group having 2 to 5 carbon atoms. The alkyl group having 1 to 4 carbon atoms includes, for example, methyl, ethyl, propyl, butyl and the like. The alkoxycarbonyl group having 2 to 5 carbon atoms

includes, for example, methoxycarbonyl, ethoxycarbonyl, propoxycarbonyl, butoxycarbonyl and the like. Of these, hydrogen atom or alkyl group having 1 to 4 carbon atoms is preferred, and hydrogen atom is most preferred.

[0024] In the general formula (1), R3 represents hydrogen atom, amino group, unsubstituted or substituted alkyl group having 1 to 4 carbon atoms, alkanoyl group having 1 to 4 carbon atoms or alkoxycarbonyl group having 2 to 5 carbon atoms. The unsubstituted alkyl group having 1 to 4 carbon atoms includes, for example, methyl, ethyl, propyl, isopropyl, butyl and the like.

[0025] The substituted alkyl group in R3 includes alkyl group having 1 to 4 carbon atoms (for example, methyl, ethyl, propyl, isopropyl, butyl and the like), which is substituted with a substituent. Said substituent includes hydroxyl group, amino group, alkoxy group having 1 to 4 carbon atoms (for example, methoxy, ethoxy, propoxy, isopropoxy, butoxy and the like).

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[0026] The alkanoyl group having 1 to 4 carbon atoms in R3 includes, for example, formyl, acetyl, propionyl, butyryl and the like.

[0027] The alkoxycarbonyl group having 2 to 5 carbon atoms in R3 includes, for example, methoxycarbonyl, ethoxycarbonyl, propoxycarbonyl, isopropoxycarbonyl, butoxycarbonyl and the like.

[0028] The substituent as R3 is preferably hydrogen atom, methyl, ethyl, propyl, isopropyl, butyl, aminomethyl, aminoethyl or hydroxyethyl, and hydrogen atom is particulary preferable.

[0029] In the general formula (1), W represents carbon atom or nitrogen atom, and nitrogen atom is particularly preferable.

[0030] In the general formula (1), m represents 0 to 2, and 1 or 2 is preferable, 1 being particularly preferable.

[0031] In the general formula (1), X is a group represented by any one of the above formula (a), (b) or (c). In the above formulae, R5 represents hydrogen atom, unsubstituted or substituted alkyl group having 1 to 4 carbon atoms, R6 represents hydrogen atom, unsubstituted or substituted alkyl group having 1 to 4 carbon atoms, hydroxyl group, unsubstituted or substituted aryl group, carboxyl group or alkoxycarbonyl group having 2 to 5 carbon atoms, n represents 0 to3, and W represents carbon atom or nitrogen atom. If n is 2 or more, each R6 may be the same or different. [0032] The unsubstituted alkyl group having 1 to 4 carbon atoms in R5 and R6 in the formula (a) or (b) includes, for

example, methyl, ethyl, propyl, isopropyl, butyl and the like.

[0033] The substituted alkyl group in R5 and R6 in the formula (a) or (b) includes, for example, alkyl group having 1 to 4 carbon atoms (for example, methyl, ethyl, propyl, isopropyl, butyl and the like), which is substituted with a substituent. Said substituent includes, for example, hydroxyl group, amino group, alkoxy group having 1 to 4 carbon atoms (for example, methoxy, ethoxy, propoxy, isopropoxy, butoxy and the like.)

[0034] The unsubstituted aryl group in R<sup>6</sup> in the formula (a) is limited in no way as long as it is a monocyclic or condensed aromatic compound, and includes, concretely, phenyl, 1-naphthyl, 2-naphthyl and the like.

[0035] The substituted aryl group in R<sup>6</sup> in the formula (a) includes a monocyclic or condensed aromatic compound having substituent and is not limited in particular as long as it is a group derived from various aromatic hydrocarbon compounds. The number of the substituent on the aryl group may be single or plural, and in the case of plural substituents, these substituents may be the same or different each other. Further, the substituent can be present in any position on the aryl group. The substituent on the substituted aryl group includes halogen atom such as fluorine, chlorine and bromine atom; alkyl group having 1 to 4 carbon atoms such as methyl, ethyl, propyl, isopropyl and butyl; alkoxy group having 1 to 4 carbon atoms such as methoxy, ethoxy, propoxy and butoxy; hydroxyl group; amino group; nitro group; cyano group; alkylamino group having 1 to 4 carbon atoms such as methylamino, ethylamino, propylamino and butylamino; dialkylamino group having 2 to 8 carbon atoms such as dimethylamino and diethylamino; (the two alkyl groups may be the same or different); alkylcarbamoyl group having 2 to 5 carbon atoms such as carbamoyl, methylcarbamoyl, ethylcarbamoyl, propylcarbamoyl and butylcarbamoyl; alkanoyloxy group having 2 to 5 carbon atoms such as acetyloxy, propionyloxy and butyryloxy; alkoxycarbonyl group having 2 to 5 carbon atoms such as methoxycarbonyl, ethoxycarbonyl, propoxycarbonyl and butoxycarbonyl; trifluoromethyl group; and methylenedioxy or ethylenedioxy group with adjacent two groups together.

[0036] The alkoxycarbonyl group having 2 to 5 carbon atoms in R<sup>6</sup> of the formula (a) includes, for example, methoxycarbonyl, ethoxycarbonyl, propoxycarbonyl, isopropoxycarbonyl butoxycarbonyl and the like.

[0037] The R5 in the formula (a) or (b) is preferably hydrogen atom or alkyl group having 1 to 4 carbon atoms, hydrogen atom being particularly preferable.

[0038] The R<sup>6</sup> in the formula (a) is preferably hydrogen atom, alkyl group having 1 to 4 carbon atoms or alkoxycarbonyl group having 2 to 5 carbon atoms, hydrogen atom being particularly preferable.

[0039] The n in the formula (a) represents 0 to 3, 1 to 3 is preferable, and 1 or 2 is particularly preferable.

[0040] The n in the formula (b) represents 0 to 3, 1 or 2 is preferable, and 1 is particularly preferable.

[0041] The W in the formula (b) represents carbon atom or nitrogen atom, and carbon atom is particularly preferable.

[0042] The W in the formula (c) represents carbon atom or nitrogen atom, and nitrogen atom is particularly preferable.

[0043] In the formula (1), Y represents, if X is represented by the formula (a), single bond or CH2, if X is represented by the formula (b), single bond, CO, CH2, CONH, CSNH or SO2, if X is represented by the formula (c), single bond,

CO, CH<sub>2</sub> or SO<sub>2</sub>, wherein preference is given to single bond or CH<sub>2</sub>, particularly to single bond.

[0044] In the formula (1), Z represents unsubstituted or substituted aryl group or unsubstituted or substituted heteroaryl group.

[0045] The unsubstituted aryl group of Z is limited in no way as long as it is a monocyclic or condensed aromatic compound, and includes, concretely, phenyl, 1-naphthyl, 2-naphthyl and the like.

[0046] The substituted aryl group as Z includes a monocyclic or condensed aromatic compound having substituent and is not limited in particular as long as it is a group derived from various aromatic hydrocarbon compounds. The number of the substituent on the aryl group may be single or plural, and in the case of plural substituents, these substituents may be the same or different each other. Further, the substituent can be present in any position on the aryl group. Said substituent on the substituted aryl group includes halogen atom such as fluorine, chlorine and bromine atom; alkyl group having 1 to 5 carbon atoms or cycloalkyl group such as methyl, ethyl, propyl, isopropyl, butyl and pentyl; alkoxy group having 1 to 5 carbon atoms or cycloalkyloxy group such as methoxy, ethoxy, propoxy and butoxy, pentyloxy, cyclopropyloxy, cyclopentyloxy; cyclopentyloxy; aralkyloxy group such as benzyloxy; acetamide group; hydroxyl group; amino group; nitro group; cyano group; alkylamino group having 1 to 5 carbon atoms such as methylamino, ethylamino, propylamino, butylamino and pentylamino; dialkylamino group having 2 to 8 carbon atoms such as dimethylamino and diethylamino (the two alkyl groups may be the same or different); alkylcarbamoyl group having 1 to 4 carbon atoms such as carbamoyl, methylcarbamoyl, ethylcarbamoyl, propylcarbamoyl and butylcarbamoyl; alkanoyloxy group having 2 to 5 carbon atoms such as methoxycarbonyl, ethoxycarbonyl, propoxycarbonyl and butoxycarbonyl; trifluoromethyl group; and methylenedioxy or ethylenedioxy group with adjacent two groups together.

[0047] The unsubstituted heteroaryl group in Z includes a 5- or 6-membered ring containing one or two hetero atoms (two hetero atoms may be the same or different) selected from the group consisting of nitrogen, oxygen and sulfur atom, or a 5- or 6-membered ring, which is condensed with phenyl ring, containing one or two hetero atoms (two hetero atoms may be the same or different) selected from the group consisting of nitrogen, oxygen and sulfur atom. Concretely, it includes thienyl, furyl, pyrrolyl, pyrazolyl, oxazolyl, isoxazolyl, isothiazolyl, benzoxazolyl, benzothiazolyl, benzothiazolyl, benzoimidazolyl, pyridyl, pyridiyl, pyridiyl, pyridazinyl and the like.

[0048] The substituted heteroaryl group in Z includes a 5- or 6-membered ring substituted with substituent and containing one or two hetero atoms selected from the group consisting of nitrogen, oxygen and sulfur atom, or a 5- or 6-membered ring, which is condensed with phenyl ring, containing one or two hetero atoms selected from the group consisting of nitrogen, oxygen and sulfur atom. The substituent includes, for example, halogen atom such as fluorine, chlorine and bromine atom, alkyl group having 1 to 4 carbon atoms such as methyl, ethyl, propyl, isopropyl and butyl group, alkoxy group having 1 to 4 carbon atoms such as methoxy, ethoxy, propoxy and butoxy, hydroxyl group, amino group, alkanoyloxy group having 2 to 5 carbon atoms such as acetyloxy, propionyloxy and butyryloxy, and alkoxycarbonyl group having 2 to 5 carbon atoms such as methoxycarbonyl, ethoxycarbonyl, propoxycarbonyl and butoxycarbonyl.

[0049] As the substituent in Z, unsubstituted or substituted aryl group or heteroaryl group is preferable and unsubstituted or substituted phenyl, thienyl, furyl or pyridyl is particularly preferable.

[0050] The compound of the present invention can form a salt with an acid. The preferable acid is a pharmaceutically acceptable acid and includes, concretely, an inorganic acid such as hydrochloric acid, sulfuric acid, hydrobromic acid and phosphoric acid and an organic acid such as acetic acid, oxalic acid, citric acid, malic acid, tartaric acid, fumaric acid, maleic acid and methanesulfonic acid. Further, in case that the compound of the present invention has an acidic substituent, it can form a salt with a base. The preferable base is a pharmaceutically acceptable base and includes, concretely, a hydroxide of alkali metal such as sodium and potassium or of alkaline-earth metal such as magnesium and calcium, an inorganic base such as carbonate, and an organic base such as triethylamine and pyridine. In case that the compound of the present invention has one, or two or more asymmetric carbon atoms, it includes stereoisomers in any pure form thereof such as optical isomer and diastereomer, arbitrary any mixtures thereof or racemic compounds, and further includes all the hydrates, solvates and crystals.

[0051] The compounds of the present invention concretely includes, for example, the compounds shown in Tables 1 to 20. The quinazoline derivateives used as an effective ingredient of the medicament according to the present invention, however, are not limited to these.

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Table 1

R<sup>1</sup> N

Each substituent in the formula above is as follows:

R <sup>3</sup> H H H H H H H	Z phenyl 2 - fluorophenyl 3 - fluorophenyl 4 - fluorophenyl 2 - chlorophenyl 3 - chlorophenyl
н н н н н	2 - fluorophenyl 3 - fluorophenyl 4 - fluorophenyl 2 - chlorophenyl 3 - chlorophenyl
н Н Н Н	3 - fluorophenyl 4 - fluorophenyl 2 - chlorophenyl 3 - chlorophenyl
Н Н Н Н	4 – fluorophenyl 2 – chlorophenyl 3 – chlorophenyl
H H H	4 – fluorophenyl 2 – chlorophenyl 3 – chlorophenyl
H H	2 – chlorophenyl 3 – chlorophenyl
Н	3 – chlorophenyl
И	4 – chlorophenyl
11	2 - methylphenyl
Н	3 – methylphenyl
Н	4 – methylphenyl
Н	2 – methoxyphenyl
Н	3 – methoxyphenyl
H	4 – methoxyphenyl
H	3, 4 - dimethoxyphenyl
methyl	- phenyl
methyl	2 – fluorophenyl
methyl	3 – fluorophenyl
methyl	4 — fluorophenyl
methyl	2 – chlorophenyl
methyl	3 – chlorophenyl
methyl	4 — chlorophenyl
methyl	2 – methylphenyl
methyl	3 – methylphenyl
methyl	4 - methylphenyl
methyl	2 – methoxyphenyl
methyl	3 - methoxyphenyl
methyl	4 - methoxyphenyl
methyl	3, 4 - dimethoxyphenyl
Н	phenyl
H	2 — fluorophenyl
H	3 — fluorophenyl
Н	4 – fluorophenyl
Н	2 - chlorophenyl
Н	3 - chlorophenyl
н	4 - chlorophenyl
	H H H H H H H methyl h H H H H H H H H

#### Table 1 (continuation)

R¹ R3 Z H 2 - methylphenyl fluoro fluoro Н 3 - methylphenyl fluoro Н 4 - methylphenyl H fluoro 2 - methoxyphenyl Н 3 - methoxyphenyl fluoro Н 4 - methoxyphenyl fluoro 3, 4 - dimethoxyphenyl Н fluoro methyl phenyl fluoro fluoro methyl 2 - fluorophenyl 3 - fluorophenyl fluoro methyl fluoro methyl 4 - fluorophenyl 2 - chlorophenyl fluoro methyl methyl 3 - chlorophenyl fluoro methyl 4 - chlorophenyl fluoro methyl 2 - methylphenyl fluoro fluoro methyl 3 - methylphenyl fluoro methyl 4 - methylphenyl fluoro 2 - methoxyphenyl methyl fluoro methyl 3 - methoxyphenyl 4 - methoxyphenyl methyl fluoro fluoro methyl 3, 4 - dimethoxyphenyl

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Table 2

Each substituent in the formula above is as follows:

m	R <sup>1</sup>	R³	Z
ı	nitro	Н	phenyl
1	nitro	Н	2 – fluorophenyl
1	nitro	Н	3 — fluorophenyl
1	nitro	Н	4 - fluorophenyl
l	nitro	Н	2, 4 - difluorophenyl
1	nitro	Н	2, 5 – difluorophenyl
1	nitro	Н	2, 6 – difluorophenyl
1	nitro	H	3, 4 — difluorophenyl
1	nitro	Н	3, 5 – difluorophenyl
1	nitro	Н	2 – chlorophenyl
1	nitro	Н	3 – chlorophenyl
1	nitro	Н	4 – chlorophenyl
1	nitro	Н	2, 4 – dichlorophenyl
1	nitro	Н	3, 4 - dichlorophenyl
1	nitro	Н	2 – bromophenyl
1	nitro	Н	3 – bromophenyl
1	nitro	Н	4 – bromophenyl
1	nitro	Н	2 – methylphenyl
1	nitro	H	3 – methylphenyl
1	nitro	Н	4 - methylphenyl
1	nitro	H	2 – methoxyphenyl
1	nitro	Н	3 - methoxyphenyl
1	nitro	H	4 – methoxyphenyl
ì	nitro	Н	2, 3 – dimethoxyphenyl
1	nitro	Н	2, 4 - dimethoxyphenyl
1	nitro	Н	3, 4 - dimethoxyphenyl
1	nitro	Н	3, 5 - dimethoxyphenyl
1	nitro	Н	3, 4 – ( methylenedioxy ) phenyl
1	nitro	Н	3, 4 – (ethylenedioxy) phenyl
1	nitro	Н	2 - hydroxyphenyl
1	nitro	Н	3 – bydroxyphenyl
1	nitro	Н	4 - hydroxyphenyl
1	nitro	Н	2 – aminophenyl
1	nitro	Н	3 – aminophenyl
l i	nitro	Н	4 – aminophenyl
		-	

# Table 2(continuation 1)

m	R <sup>1</sup>	R <sup>3</sup>	Z
1	nitro	Н	2 - ( methylamino ) phenyl
1	nitro	Н	3 - ( methylamino ) phenyl
1	nitro	Н	4 - ( methylamino ) phenyl
1	nitro	H	2 - (dimethylamino) phenyl
1	nitro	Н	3 - (dimethylamino) phenyl
1	nitro	H	4 – (dimethylamino) phenyl
1	nitro	H	2 - carboxyphenyl
i	nitro	Н	3 – carboxyphenyl
1	nitro	H	4 – carboxyphenyl
Hill	nitro	H	2 - ( methylcarbamoyl ) phenyl
	nitro	Н	3 - ( methylcarbamoyl ) phenyl
- i -	nitro	Н	4 – ( methylcarbamoyl ) phenyl
l i	nitro	H	2 – ( methoxycarbonyl ) phenyl
i	nitro	H	3 - ( methoxycarbonyl ) phenyl
1	nitro	H	4 – (methoxycarbonyl) phenyl
l i	nitro	Н	2 – (ethoxycarbonyl) phenyl
i	nitro	Н	3 – (ethoxycarbonyl) phenyl
i	nitro	Н	4 – (ethoxycarbonyl) phenyl
i	nitro	H	2-( acetyloxy ) phenyl
1	nitro	Н	3 - ( acetyloxy ) phenyl
1	nitro	Н	4 - ( acetyloxy ) phenyl
1	nitro	Н	2 – ( propionyloxy ) phenyl
1	піто	Н	3 – ( propionyloxy ) phenyl
1	nitro	Н	4 – ( propionyloxy ) phenyl
1	nitro	Н	2 - trifluoromethylphenyl
1	nitro	Н	3 - trifluoromethylphenyl
1	nitro	Н	4 - trifluoromethylphenyl
1	nitro	Н	2 – thienyl
1	nitro	H	3 - thienyl
1	nitro	Н	2 – furyl
1	nitro	H	3 – furyl
1	nitro	Н	2 – pyridyl
1	nitro	H	3 – pyridyl
1	nitro	H	4 – pyridyl
2	nitro	Н	phenyl
2	nitro	H	2 - fluorophenyl
2	nitro	Н	3 - fluorophenyl
2	nitro	H	4 - fluorophenyl
2	nitro	H	2, 4 – difluorophenyl
2	nitro	H	2, 5 – difluorophenyl
2	nitro	Н	2, 6 - difluorophenyl
2	nitro	H	3,4 - difluorophenyl
2	nitro	Н	3, 5 – difluorophenyl
2	nitro	Н	2 – chlorophenyl
2	nitro	Н	3 – chlorophenyl
2	nitro	Н	4 - chlorophenyl
2		LI	2, 4 - dichlorophenyl
2	nitro	H	3, 4 – dichlorophenyl

# Table 2 (continuation2)

m	R <sup>1</sup>	R³	Z
2	nitro	Н	2 – bromophenyl
2	nitro	H	3 - bromophenyl
2	nitro	H	4 – bromophenyl
2	nitro	H	2 – methylphenyl
2		H	3 - methylphenyl
	nitro	н	4 – methylphenyl
2	nitro		
2	nitro	H	2 - methoxyphenyl
2	nitro	Н	3 – methoxyphenyl
2	nitro	Н	4 – methoxyphenyl
2	nitro	Н	2, 3 – dimethoxyphenyl
2	nitro	Н	2, 4 - dimethoxyphenyl
2	nitro	Н	3, 4 – dimethoxyphenyl
2	nitro	H	3, 5 - dimethoxyphenyl
2	nitro	Н	3, 4 - ( methylenedioxy ) phenyl
2	nitro	Н	3, 4 - (ethylenedioxy) phenyl
2	nitro	Н	2 – hydroxyphenyl
2	nitro	Н	3 – hydroxyphenyl
2	nitro	Н	4 – hydroxyphenyl
2	nitro	H	2 – aminophenyl
2	nitro	H	3 – aminophenyl
2 2 2	nitro	H	4 – aminophenyl
2	nitro	. Н	2 – ( methylamino ) phenyl
	nitro	H	3 - ( methylamino ) phenyl
2	nitro	H	4 – ( methylamino ) phenyl
2	nitro	H	2 - ( dimethylamino ) phenyl
2	nitro	H	3 - ( dimethylamino ) phenyl
2	nitro	H	4 - ( dimethylamino ) phenyl
2	nitro	H	2 – carboxyphenyl
2	nitro	H	3 – carboxyphenyl
2	nitro	H	4 – carboxyphenyl
2	nitro	H	2 – ( methylcarbamoyl ) phenyl
2	nitro	Н	3 – ( methylcarbamoyl ) phenyl
2	nitro	H	4 - ( methylcarbamoyl ) phenyl
2	nitro	Н	2 – ( methoxycarbonyl ) phenyl
2.	nitro	Н	3 – ( methoxycarbonyl ) phenyl
2 2 2 2	nitro	Н	4 – ( methoxycarbonyl ) phenyl
2	nitro	Н	2 – ( ethoxycarbonyl ) phenyl
2	nitro	H	3 - (ethoxycarbonyl) phenyl
2	nitro	Н	4 - (ethoxycarbonyl) phenyl
2 2 2 2	nitro	Н	2 - (acetyloxy) phenyl
2	nitro	Н	3 - (acetyloxy) phenyl
2	nitro	Н	4 - ( acetyloxy ) phenyl
2	nitro	Н	2 - ( propionyloxy ) phenyl
2	nitro	Н	3 - (propionyloxy) phenyl
2	nitro	Н	4 – ( propionyloxy ) phenyl
2	nitro	Н	2 - trifluoromethylphenyl
2	nitro	Н	3 - trifluoromethylphenyl
2	nitro	Н	4 - trifluoromethylphenyl
	L BIGO	1 11	1 4 - minuoromenty iphony

# Table 2 (continuation 3)

!		R1	R <sup>3</sup>	Z
	m			· · · · · · · · · · · · · · · · · · ·
	2	nitro	H	2 – thienyl
	2	nitro		3 – thienyl 2 – furyl
		nitro	H	
	2	nitro	H	3 – furyl
		nitro	H	2 – pyridyl
	2	nitro	H	3 – pyridyl
	2	nitro	Н	4 – pyridyl
	1	fluoro	Н	phenyl
	1	fluoro	Н	2 – fluorophenyl
	1	fluoro	Н	3 – fluorophenyl
	1	fluoro	Н	4 – fluorophenyl
	1	fluoro	Н	2, 4 – difluorophenyl
	1	fluoro	Н	2, 5 – difluorophenyl
	1	fluoro	Н	2, 6 – difluorophenyl
	1	fluoro	Н	3, 4 – difluorophenyl
	1	fluoro	H	3, 5 – difluorophenyl
ļ	11	fluoro	H	2 – chlorophenyl
	i	fluoro	H	3 – chlorophenyl
	11	fluoro	H	4 – chlorophenyl
	1	fluoro	H	2, 4 – dichlorophenyl
	1	fluoro	Н	3, 4 - dichlorophenyl
	1	fluoro	Н	2 – bromophenyl
	1	fluoro	H	3 – bromophenyl
	1	fluoro	Н	4 – bromophenyl
	11	fluoro	Н	2 - methylphenyl
	1	fluoro	Н	3 – methylphenyl
	1	fluoro	H	4 - methylphenyl
	1	fluoro	H	2 – methoxyphenyl
	1	fluoro	H	3 – methoxyphenyl
	1	fluoro	H	4 – methoxyphenyl
	1	fluoro	H	2, 3 – dimethoxyphenyl
	1	fluoro	H	2, 4 – dimethoxyphenyl
	1	fluoro	H	3, 4 – dimethoxyphenyl
	1	fluoro	H	3, 5 – dimethoxyphenyl
	1	fluoro	Н	3, 4 – (methylenedioxy) phenyl
	1	fluoro	H	3, 4 – (ethylenedioxy) phenyl
i	<u> </u>	fluoro fluoro	H	2 - hydroxyphenyl
				3 - hydroxyphenyl
	1	fluoro	H	4 - hydroxyphenyl
		fluoro		2 – aminophenyl
	1	fluoro	H	3 – aminophenyl
		fluoro	H	4 – aminophenyl
	1	fluoro	H	2 - ( methylamino ) phenyl
	1	fluoro	H	3 - ( methylamino ) phenyl
	1	fluoro	Н	4 - ( methylamino ) phenyl
	1	fluoro	Н	2 - (dimethylamino) phenyl
	1	Unoto	Н	3 - (dimethylamino) phenyl
	ı	fluoro	Н	4 - ( dimethylamino ) phenyl

Table 2(continuation 4)

m	R¹	R³	Z
1	fluoro	Н	2 - carboxyphenyl
1	fluoro	Н	3 - carboxyphenyl
1	fluoro	H	4 – carboxyphenyl
1	fluoro	Н	2 - ( methylcarbamoyl ) phenyl
ī	fluoro	Н	3 – ( methylcarbamoyl ) phenyl
ī	fluoro	H	4 - ( methylcarbamoyl ) phenyl
1	fluoro	Н	2 - ( methoxycarbonyl ) phenyl
ī	fluoro	Н	3 - ( methoxycarbonyl ) phenyl
1	fluoro	Н	4 - ( methoxycarbonyl ) phenyl
1	fluoro	Н	2 - ( ethoxycarbonyl ) phenyl
1	fluoro	Н	3 - ( ethoxycarbonyl ) phenyl
1	fluoro	Н	4 – ( ethoxycarbonyl ) phenyl
1	fluoro	Н	2 - ( acetyloxy ) phenyl
1	fluoro	Н	3 - ( acetyloxy ) phenyl
i	fluoro	н	4 - ( acetyloxy ) phenyl
1	fluoro	Н	2 - (propionyloxy) phenyl
1	fluoro	Н	3 - (propionyloxy) phenyl
1	fluoro	Н	4 - (propionyloxy) phenyl
1	fluoro	Н	2 - trifluoromethylphenyl
1	fluoro	Н	3 - trifluoromethylphenyl
1	fluoro	Н	4 - trifluoromethylphenyl
1	fluoro	Н	2 – thienyl
1	fluoro	H	3 – thienyl
1	fluoro	Н	2 – furyl
1	fluoro	Н	3 – furyl
1	fluoro	Н	2 – pyridyl
1	fluoro	H	3 – pyridyl
1	fluoro	H	4 – pyridyl
1	chloro	H	phenyl
1	chloro	H	2 – fluorophenyl
1	chloro	H	3 – fluorophenyl
1	chloro	Н	4 – fluorophenyl
1	chloro	H	2, 4 – difluorophenyl
1	chloro	H	2, 5 – difluorophenyl
1	chloro	Н	2, 6 – difluorophenyl
1	chloro	Н	3, 4 – difluorophenyl
1	chloro	Н	3, 5 - difluorophenyl
1	chloro	Н	2 – chlorophenyl
1	chloro	Н	3 – chlorophenyl
1	chloro	H	4 – chlorophenyl
1	chloro	Н	2, 4 - dichlorophenyl
1	chloro	H	3, 4 – dichlorophenyl
11	chloro	H	2 – bromophenyl
1	chloro	Н	3 – bromophenyl
1	chloro	H ·	4 – bromophenyl
1	chloro	Н	2 – methylphenyl
1	chloro_	H_	3 – methylphenyl

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# Table 2(continuation 5)

m	R <sup>1</sup>	R <sup>3</sup>	Z
Ī	chloro	Н	2 – methoxyphenyl
1	chloro	Н	3 – methoxyphenyl
1	chloro	Н	4 - methoxyphenyl
1	chloro	Н	2, 3 - dimethoxyphenyl
1	chloro	Н	2, 4 - dimethoxyphenyl
	chloro	Н	3, 4 – dimethoxyphenyl
1	chloro	Н	3, 5 - dimethoxyphenyl
1	chloro	Н	3, 4 – ( methylenedioxy ) phenyl
i	chloro	Н	3, 4 – (ethylenedioxy) phenyl
1	chloro	Н	2 - hydroxyphenyl
1	chloro	H	3 - hydroxyphenyl
1	chloro	Н	4 – hydroxyphenyl
1	chloro	Н	2 – aminophenyl
1	chloro	Н	3 – aminophenyl
1	chloro	Н	4 – aminophenyl
1	chloro	H	2 - ( methylamino ) phenyl
1	chloro	Н	3 – (methylamino) phenyl
1	chloro	Н	4 - ( methylamino ) phenyl
1	chloro	Н	2 - (dimethylamino) phenyl
1	chloro	Н	3 - (dimethylamino) phenyl
1	chloro	Н	4 – (dimethylamino) phenyl
1	chloro	н	2 - carboxyphenyl
1	chloro	Н	3 – carboxyphenyl
1	chloro	Н	4 – carboxyphenyl
1	chloro	Н	2 – ( methylcarbamoyl ) phenyl
1	chloro	Н	3 - ( methylcarbamoyl ) phenyl
1	chloro	H ·	4 - ( methylcarbamoyl ) phenyl
1	chloro	Н	2 - ( methoxycarbonyl ) phenyl
i	chloro	Н	3 - ( methoxycarbonyl ) phenyl
1	chloro	Н	4 - ( methoxycarbonyl ) phenyl
1	chloro	Н	2 - (ethoxycarbonyl) phenyl
1	chloro	Н	3 - (ethoxycarbonyl) phenyl
i	chloro	Н	4 - (ethoxycarbonyl) phenyl
1	chloro	н	2 - ( acetyloxy ) phenyl
i	chloro	Н	3 - (acetyloxy) phenyl
1	chloro	Н	4 - ( acetyloxy ) phenyl
1	chloro	Н	2 – ( propionyloxy ) phenyl
1	chloro	Н	3 – (propionyloxy) phenyl
1	chloro	H	4 - ( propionyloxy ) phenyl
1	chloro	Н	2 - trifluoromethylphenyl
1	chloro	H	3 - trifluoromethylphenyl
1	chloro	Н	4 - trifluoromethylphenyl
1	chloro	H	2 – thienyl
1	chloro	H	3 – thienyl
1	chloro	H	2 – furyl
1	chloro	H	3 – furyl
1	chloro	H	2 – pyridyl
1	chloro	H	3 – pyridyl

# Table 2(continuation 6)

m	R'	R³	Z
1	chloro	Н	4 – pyridyl
1	nitro	methyl	phenyl
ī	nitro	methyl	2 – fluorophenyl
1	nitro	methyl	3 – fluorophenyl
1	nitro	methyl	4 - fluorophenyl
1	nitro	methyl	2, 4 - difluorophenyl
1	nitro	methyl	2, 5 - difluorophenyl
1	nitro	methyl	2, 6 – difluorophenyl
1	nitro	methyl	3, 4 – difluorophenyl
1	nitro	methyl	3, 5 – difluorophenyl
1	nitro	methyl	2 – chlorophenyl
1	nitro	methyl	3 – chlorophenyl
1	nitro	methyl	4 - chlorophenyl
1	nitro	methyl	2, 4 – dichlorophenyl
1	nitro	methyl	3, 4 – dichlorophenyl
1	nitro	methyl	2 - bromophenyl
i	nitro	methyl	3 - bromophenyl
1	nitro	methyl	4 - bromophenyl
i	nitro	methyl	2 – methylphenyl
1	nitro	methyl	3 – methylphenyl
i	nitro	methyl	4 – methylphenyl
1	nitro	methyl	2 - methoxyphenyl
1	nitro	methyl	3 - methoxyphenyl
1	nitro	methyl	4 - methoxyphenyl
1	nitro	methyl	2, 3 - dimethoxyphenyl
1	nitro	methyl	2, 4 - dimethoxyphenyl
1	nitro	methyl	3, 4 - dimethoxyphenyl
1	nitro	methyl	3, 5 - dimethoxyphenyl
1	pitro	methyl	3, 4 - ( methylenedioxy ) phenyl
1	nitro	methyl	3, 4 - (ethylenedioxy) phenyl
1	nitro	methyl	2 - hydroxyphenyl
1	nitro	methyl	3 – hydroxyphenyl
1	nitro	methyl	4 – hydroxyphenyl
1	nitro	methyl	2 – aminophenyl
1	nitro	methyl	3 – aminophenyl
1	nitro	methyl	4 – aminophenyl
1	nitro	methyl	2 - ( methylamino ) phenyl
1	nitro	methyl	3 - ( methylamino ) phenyl
1	nitro	methyl	4 - ( methylamino ) phenyl
1	nitro	methyl	2 - ( dimethylamino ) phenyl
1	nitro	methyl	3 – ( dimethylamino ) phenyl
1	nitro	methyl	4 - ( dimethylamino ) phenyl
1	nitro	methyl	2 – carboxyphenyl
1	nitro	methyl	3 - carboxyphenyl
1	nitro	methyl	4 - carboxyphenyl
1	nitro	methyl	2 - ( methylcarbamoyl ) phenyl
i	nitro	methyl	3 - ( methylcarbamoyl ) phenyl
1	nitro	methyl	4 - ( methylcarbamoyl ) phenyl
		<u>,</u>	

# Table 2(continuation 7)

m R¹ R³ Z  1 nitro methyl 2-(methoxycarbonyl) pl 1 nitro methyl 3-(methoxycarbonyl) pl 1 nitro methyl 4-(methoxycarbonyl) pl 1 nitro methyl 2-(ethoxycarbonyl) ph 1 nitro methyl 3-(ethoxycarbonyl) ph 1 nitro methyl 4-(ethoxycarbonyl) ph 1 nitro methyl 4-(ethoxycarbonyl) ph 1 nitro methyl 3-(acetyloxy) pheny 1 nitro methyl 3-(acetyloxy) pheny 1 nitro methyl 4-(acetyloxy) pheny 1 nitro methyl 2-(propionyloxy) pheny 1 nitro methyl 3-(propionyloxy) pheny 1 nitro methyl 3-(propionyloxy) pheny 1 nitro methyl 3-(trifluoromethylphen) 1 nitro methyl 3-trifluoromethylphen 1 nitro methyl 3-trifluoromethylphen 1 nitro methyl 4-trifluoromethylphen 1 nitro methyl 4-trifluoromethylphen	
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1 nitro methyl 4 - (acetyloxy) pheny 1 nitro methyl 2 - (propionyloxy) pheny 1 nitro methyl 3 - (propionyloxy) pheny 1 nitro methyl 4 - (propionyloxy) pheny 1 nitro methyl 2 - trifluoromethylpheny 1 nitro methyl 3 - trifluoromethylpheny 1 nitro methyl 4 - trifluoromethylpheny	
1 nitro methyl 2-(propionyloxy) pher 1 nitro methyl 3-(propionyloxy) pher 1 nitro methyl 4-(propionyloxy) pher 1 nitro methyl 2-trifluoromethylphen 1 nitro methyl 3-trifluoromethylphen 1 nitro methyl 4-trifluoromethylphen	
1 nitro methyl 3-(propionyloxy) pher 1 nitro methyl 4-(propionyloxy) pher 1 nitro methyl 2-trifluoromethylphen 1 nitro methyl 3-trifluoromethylphen 1 nitro methyl 4-trifluoromethylphen	
1 nitro methyl 4-(propionyloxy) pher 1 nitro methyl 2-trifluoromethylphen 1 nitro methyl 3-trifluoromethylphen 1 nitro methyl 4-trifluoromethylphen	
1 nitro methyl 2 - trifluoromethylphen 1 nitro methyl 3 - trifluoromethylphen 1 nitro methyl 4 - trifluoromethylphen	
1 nitro methyl 3-trifluoromethylphen 1 nitro methyl 4-trifluoromethylphen	
1 nitro methyl 4 - trifluoromethylphen	
	-
1 nitro methyl 3 – thienyl	
1 nitro methyl 2 – furyl	
1 nitro methyl 3 – furyl	
1 nitro methyl 2 – pyridyl	
1 nitro methyl 3 – pyridyl	
1 nitro methyl 4 – pyridyl	
2 nitro methyl phenyl	
2 nitro methyl 2 - fluorophenyl	
2 nitro methyl 3 – fluorophenyl	
2 nitro methyl 4 – fluorophenyl	
2 nitro methyl 2, 4 – difluorophenyl	
2 nitro methyl 2, 6 – difluorophenyl 2 nitro methyl 3, 4 – difluorophenyl 2 nitro methyl 3, 5 – difluorophenyl	
2 nitro methyl 3, 4 - difluorophenyl	
2 nitro methyl 2 - chlorophenyl	
2 nitro methyl 3 – chlorophenyl	
2 nitro methyl 4 – chlorophenyl	
2 nitro methyl 2, 4 - dichlorophenyl	
2 nitro methyl 3, 4 – dichlorophenyl	
2 nitro methyl 2-bromophenyl	
2 nitro methyl 3 – bromophenyl 2 nitro methyl 4 – bromophenyl	
2 nitro methyl 2 – methylphenyl	
2 nitro methyl 3 – methylphenyl	
2 nitro methyl 4 – methylphenyl	
2 nitro methyl 2 – methoxyphenyl	
2 nitro methyl 3 – methoxyphenyl	
2 nitro methyl 4 – methoxyphenyl	
2 nitro methyl 2, 3 – dimethoxypheny	d
2 nitro methyl 2, 4 – dimethoxypheny	ıl
2 nitro methyl 3, 4 - dimethoxypheny	ıl l

Table 2(continuation 8)

m	R¹	R³	Z
2	nitro	methyl	3, 5 - dimethoxyphenyl
2	nitro	methyl	3, 4 - ( methylenedioxy ) phenyl
2	nitro	methyl	3, 4 – (ethylenedioxy) phenyl
2	nitro	methyl	2 – hydroxyphenyl
2	nitro	methyl	3 – hydroxyphenyl
2	nitro	methyl	4 hydroxyphenyl
2	nitro	methyl	2 – aminophenyl
2	nitro	methyl	3 – aminophenyl
2	nitro	methyl	4 – aminophenyl
2	nitro	methyl	2 - ( methylamino ) phenyl
2	nitro	methyl	3 - ( methylamino ) phenyl
2	nitro	methyl	4 - ( methylamino ) phenyl
2	nitro	methyl	2 - ( dimethylamino ) phenyl
2	nitro	methyl	3 – ( dimethylamino ) phenyl
2	nitro	methyl	4 – ( dimethylamino ) phenyl
2	nitro	methyl	2 – carboxyphenyl
2	nitro	methyl	. 3 – carboxyphenyl
2	nitro	methyl	4 – carboxyphenyl
2	nitro	methyl	2 - ( methylcarbamoyl ) phenyl
2	nitro	methyl	3 - ( methylcarbamoyl ) phenyl
2	nitro	methyl	4 - ( methylcarbamoyl ) phenyl
2	nitro	methyl	2 - ( methoxycarbonyl ) phenyl
2	nitro	methyl	3 - ( methoxycarbonyl ) phenyl
2	nitro	methyl	4 - ( methoxycarbonyl ) phenyl
2	nitro	methyl	2 – (ethoxycarbonyl) phenyl
2	nitro	methyl	3 - (ethoxycarbonyl) phenyl
2	nitro	methyl	4 - (ethoxycarbonyl) phenyl
2	nitro	methyl	2 - ( acetyloxy ) phenyl
2	nitro	methyl	3 - (acetyloxy) phenyl
2	nitro	methyl	4 - ( acetyloxy ) phenyl
2	nitro	methyl	2 – ( propionyloxy ) phenyl
2	nitro	methyl	3 – (propionyloxy) phenyl
2	nitro	methyl	4 – (propionyloxy) phenyl
2	nitro	methyl	2 - trifluoromethylphenyl
2	nitro	methyl	3 - trifluoromethylphenyl
2	nitro	methyl	4 - trifluoromethylphenyl
2	nitro	methyl	2 – thienyl
2	nitro	methyl	2 - thenyl
		methyl	2 – furyl
2	nitro	<del></del>	3 – furyl
2	nitro	methyl	
2	nitro	methyl	2 – pyridyl
2	nitro	methyl	3 – pyridyl
2	nitro	methyl	4 – pyridyl
1 .	nitro	ethyl	phenyl
1	nitro	ethyl	2 – fluorophenyl
1	nitro	ethyl	3 – fluorophenyl
1	nitro	ethyl	4 – fluorophenyl
]	nitro	ethyl	2, 4 - difluorophenyl

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# Table 2(continuation 9)

T <sub>D</sub>	R¹	R <sup>3</sup>	Z
1	nitro	ethyl	2, 5 - difluorophenyl
1	nitro	ethyl	2, 6 - difluorophenyl
i	nitro	ethyl	3, 4 – difluorophenyl
l i	nitro	ethyl:	3, 5 - difluorophenyl
	nitro	ethyl	2 - chlorophenyl
1	nitro	ethyl	3 – chlorophenyl
1	nitro	ethyl	4 – chlorophenyl
	nitro	ethyl	2, 4 – dichlorophenyl
1		ethyl	3, 4 – dichlorophenyl
1	nitro		2 – bromophenyl
1	nitro	ethyl	3 - bromophenyl
1	nitro	ethyl ethyl	4 – bromophenyl
1	nitro		2 – methylphenyl
1	nitro	ethyl	3 - methylphenyl
1	nitro	ethyl	4 – methylphenyl
1	nitro	ethyl	2 – methysphenyl
1-1-	nitro	ethyl	3 – methoxyphenyl
1	nitro	ethyl	4 – methoxyphenyl
1	nitro	ethyl	4 - metnoxyphenyl
1	nitro	ethyl	2, 3 – dimethoxyphenyl
1	nitro	ethyl	2, 4 – dimethoxyphenyl
1	nitro	ethyl	3, 4 – dimethoxyphenyl
1	nitro	ethyl	3, 5 - dimethoxyphenyl 3, 4 - (methylenedioxy) phenyl
1	nitro	ethyl	3, 4 – ( ethylenedioxy ) phenyl
1	nitro	ethyl	2 – hydroxyphenyl
1	nitro	ethyl ethyl	3 – hydroxyphenyl
1	nitro	ethyl	4 – hydroxyphenyl
1	nitro nitro	ethyl	2 – aminophenyl
<del> </del>	nitro	ethyl	3 – aminophenyl
1	nitro	ethyl	4 – aminophenyl
1	nitro	ethyl	2 - ( methylamino ) phenyl
1	nitro	ethyl	3 - (methylamino) phenyl
1	nitro	ethyl	4 – (methylamino) phenyl
1	nitro	ethyl	2 – (dimethylamino) phenyl
1	nitro	cthyl	3 – (dimethylamino) phenyl
1	nitro	ethyl	4 - (dimethylamino) phenyl
i	nitro	ethyl	2 – carboxyphenyl
1	nitro	ethyl	3 – carboxyphenyl
1	nitro	ethyl	4 – carboxyphenyl
1	nitro	ethyl	2 - (methylcarbamoyl) phenyl
1	nitro	ethyl	3 – (methylcarbamoyl) phenyl
1	nitro	ethyl	4 - (methylcarbamoyl) phenyl
1	nitro	ethyl	2 - (methylcaroantoy) phenyl
<u></u>			3 – (methoxycarbonyl) phenyl
1	nitro nitro	ethyl	4 – ( methoxycarbonyl ) phenyl
	nitro	ethyl	2 - ( ethoxycarbonyl ) phenyl
1		ethyl	
1	nitro	ethyl	
1	nitro	ethyl	4 - ( ethoxycarbonyl ) phenyl

# Table 2(continuation 10)

		-1	<del></del>
m	R <sup>1</sup>	R <sup>3</sup>	Z
1	nitro	ethyl	2 - ( acetyloxy ) phenyl
<u> </u>	nitro	ethyl	3 - ( acetyloxy ) phenyl
1	nitro	ethyl	4 - ( acetyloxy ) phenyl
1	nitro	ethyl	2 – ( propionyloxy ) phenyl
1	nitro	ethyl	3 – ( propionyloxy ) phenyl
ı	nitro	ethyl	4 – ( propionyloxy ) phenyl
1	nitro	ethyl	2 - trifluoromethylphenyl
1	nitro	ethyl	3 - trifluoromethylphenyl
1	nitro	ethyl	4 - trifluoromethylphenyl
1	nitro	ethyl	2 – thienyl
1	nitro	ethyl	3 – thienyl
1	nitro	ethyl	2 – furyl
	nitro	ethyl	3 – furyl
1	nitro	ethyl	2 – pyridyl
1	nitro	ethyl	3 – pyridyl
- <u>i</u>	nitro	ethyl	4 – pyridyl
2	nitro	ethyl	phenyl
2	nitro	ethyl	2 – fluorophenyl
	nitro	ethyl	3 – fluorophenyl
2	nitro	ethyl	4 – fluorophenyl
2	nitro	ethyl	2, 4 - difluorophenyl
1 2	nitro	ethyl	2, 5 - difluorophenyl
1 2	nitro	ethyl	2, 6 - difluorophenyl
2 2 2 2 2 2	nitro	ethyl	3, 4 – difluorophenyl
2	nitro	ethyl	3, 5 – difluorophenyl
2	nitro	ethyl	2 - chlorophenyl .
2	nitro	ethyl	3 – chlorophenyl
2	nitro	ethyl	4 - chlorophenyl
2	nitro	ethyl	2, 4 - dichlorophenyl
2	nitro	ethyl	3, 4 - dichlerophenyl
2	nitro	ethyl	2 - bromophenyl
	nitro	ethyl	3 - bromophenyl
2	nitro	ethyl	4 – bromophenyl
2	nitro	cthyl	2 - methylphenyl
	nitro	ethyl	3 - methylphenyl
2 2 2	nitro	ethyl	4 – methylphenyl
1 2	nitro	ethyl	2 - methoxyphenyl
2	nitro	ethyl	3 - methoxyphenyl
2	nitro	ethyl	4 – methoxyphenyl
2	nitro	ethyl	2, 3 – dimethoxyphenyl
2	nitro	ethyl	2, 4 – dimethoxyphenyl
2		ethyl	3, 4 – dimethoxyphenyl
2	nitro	ethyl	3, 5 – dimethoxyphenyl
	nitro		3, 4 – (methylenedioxy) phenyl
2	nitro	ethyl	3, 4 – ( methylenedioxy ) phenyl
	nitro	ethyl	
2	nitro	ethyl	2 – hydroxyphenyl
2	nitro	ethyl	3 – hydroxyphenyl
2	nitro	ethyl	4 - hydroxyphenyl

# Table 2(continuation 11)

m	R¹	R <sup>3</sup>	Z
2	nitro	ethyl	2 – aminophenyl
2	nitro	ethyl	3 – aminophenyl
2	nitro	ethyl	4 – aminophenyl
2	nitro	ethyl	2 - ( methylamino ) phenyl
2	nitro	ethyl	3 - ( methylamino ) phenyl
2	nitro	ethyl	4 - ( methylamino ) phenyl
2	nitro	ethyl	2 - ( dimethylamino ) phenyl
2	nitro	ethyl	3 - (dimethylamino) phenyl
2	nitro	ethyl	4 - (dimethylamino) phenyl
2	nitro	ethyl	2 – carboxyphenyl
2	nitro	ethyl	3 – carboxyphenyl
2	nitro	ethyl	4 – carboxyphenyl
2	nitro	ethyl	2 - ( methylcarbamoyl ) phenyl
2	nitro	ethyl	3 - ( methylcarbamoyl ) phenyl
2	nitro	ethyl	4 – ( methylcarbamoyl ) phenyl
2	nitro	ethyl	2 - ( methoxycarbonyl ) phenyl
2	nitro	cthyl	3 - ( methoxycarbonyl ) phenyl
2	nitro	ethyl	4 - (methoxycarbonyl) phenyl
2	nitro	ethyl	2 - ( ethoxycarbonyl ) phenyl
2	nitro	ethyl	3 – (ethoxycarbonyl) phenyl
2	nitro	ethyl	4 - ( ethoxycarbonyl ) phenyl
2	nitro	ethyl	2 - ( acetyloxy ) phenyl
2	nitro	ethyl	3 - ( acetyloxy ) phenyl
2	nitro	ethyl	4 - (acetyloxy) phenyl
2	nitro	ethyl	2 - (propionyloxy) phenyl
2	nitro	ethyl	3 – (propionyloxy) phenyl
2	nitro	ethyl	4 – (propionyloxy) phenyl
2	nitro	ethyl	2 - trifluoromethylphenyl 3 - trifluoromethylphenyl
2	nitro	ethyl	- 4 - trifluoromethylphenyl
2	nitro	ethyl	2 – thienyl
2	nitro	cthyl	3 – thienyl
2	nitro nitro	ethyl ethyl	2 – furyl
2	nitro	cthyl	3 – furyl
2	nitro	ethyl	2 – pyridyl
2	nitro	ethyl	3 – pyridyl
2	nitro	ethyl	4 – pyridyl
1	nitro	propyl	phenyl
1	nitro	propyl	2 – fluorophenyl
1	nitro	propyl	3 – fluorophenyl
1	nitro	propyl	4 – fluorophenyl
1	nitro	propyl	2, 4 – difluorophenyl
1	nitro	propyl	2, 5 - difluorophenyl
1	nitro	propyl	2, 6 - difluorophenyl
1	nitro	propyl	3, 4 – difluorophenyl
1	nitro	propyl	3, 5 - difluorophenyl
1	nitro	propyl	2 – chlorophenyl
1	nitro	propyl	3 - chlorophenyl
<u> </u>	1 Into	1 1.011.	

# Table 2(continuation 12)

m	R¹	R <sup>3</sup>	Z
1	nitro	ргоруі	4 - chlorophenyl
l i	nitro	ргоруі	2, 4 - dichlorophenyl
1	nitro	propyl	3, 4 – dichlorophenyl
	nitro	propyl	2 – bromophenyl
	nitro	propyl	3 – bromophenyl
1	nitro	propyl	4 - bromophenyl
1	nitro	propyl	2 – methylphenyl
$\frac{1}{1}$	nitro	propyl	3 – methylphenyl
	nitro		4 – methylphenyl
1		propyl	2 – methoxyphenyl
1	nitro	propyl	3 – methoxyphenyl
1	nitro	propyl	4 - methoxyphenyl
1	nitro	propyl	2, 3 – dimethoxyphenyl
1	nitro	propyl	
1	nitro	propyl	2, 4 - dimethoxyphenyl 3, 4 - dimethoxyphenyl
1	nitro	propyl	
1-1-	nitro	propyl	3, 5 – dimethoxyphenyl
1	nitro	propyl	3, 4 – ( methylenedioxy ) phenyl 3, 4 – ( ethylenedioxy ) phenyl
1	nitro	propyl	
1	nitro	propyl	2 – hydroxyphenyl
1	nitro	propyl	3 – hydroxyphenyl
1	nitro	propyl	4 – hydroxyphenyl
1	nitro	propyl	2 – aminophenyl
1	nitro	propyl	3 – aminophenyl
1.1	nitro	propyl	4 - aminophenyl
1	nitro	propyl	2 - ( methylamino ) phenyl 3 - ( methylamino ) phenyl
1	nitro	propyl	4 - ( methylamino ) phenyl
1	nitro	propyl	2 – ( dimethylamino ) phenyl
1	nitro	propyl	3 – (dimethylamino) phenyl
1	nitro	propyl	4 - ( dimethylamino ) phenyl
1	nitro	propyl	2 – carboxyphenyl
1	nitro	propyl	3 – carboxyphenyl
1	nitro	propyl	4 – carboxyphenyl
1	nitro nitro	propyl propyl	2 – ( methylcarbamoyl ) phenyl
			3 – (methylcarbamoyl) phenyl
1	nitro	propyl	4 – (methylcarbamoyl) phenyl
1	nitro	propyl	2 – (methoxycarbonyl) phenyl
	nitro	propyl	3 - (methoxycarbonyl) phenyl
1	nitro	propyl	4 - ( methoxycarbonyl ) phenyl
1	nitro	propyl	2 - ( ethoxycarbonyl ) phenyl
1	nitro	propyl	3 – (ethoxycarbonyl) phenyl
1	nitro	propyl	4 – (ethoxycarbonyl) phenyl
1	nitro	propyl	
. 1	nitro	propyl	2 - (acetyloxy) phenyl
1	nitro	propyl	3 - (acetyloxy) phenyl
1	nitro	propyl	4 – (acetyloxy) phenyl
1	nitro	propyl	2 – ( propionyloxy ) phenyl
1	nitro	propyl	3 - ( propionyloxy ) phenyl
1	nitro	propyl	4 – ( propionyloxy ) phenyl

# Table 2(continuation 13)

1	m	R <sup>1</sup>	R <sup>3</sup>	Z
_	1	nitro	propyl	2 - trifluoromethylphenyl
5	1	nitro	propyl	3 - trifluoromethylphenyl
	ī	nitro	propyl	4 - trifluoromethylphenyl
	i	nitro	propyl	2 – thienyl
	i	nitro	propyl	3 – thienyl
10	1	nitro	propyl	2 – furyl
	1	nitro	propyl	3 – furyl
	1	nitro	propyl	2 – pyridyl
	1	nitro	propyl	3 – pyridyl
	1	nitro	propyl	4 – pyridyl
15	2	nitro	propyl	phenyl
	2	nitro	propyl	2 – fluorophenyl
	2	nitro	propyl	3 – fluorophenyl
	2	nitro	propyl	4 – fluorophenyl
	2	nitro	propyl	2, 4 – difluorophenyl
20	2	nitro	propyl	2, 5 - difluorophenyl
	2	nitro	propyl	2, 6 – difluorophenyl
	2	nitro	propyl	3, 4 – difluorophenyl
	2	nitro	propyl	3, 5 – difluorophenyl
25	2	nitro	propyl	2 – chlorophenyl
	2	nitro	propyl	3 – chlorophenyl
	2	nitro	propyl	4 – chlorophenyl
	2	nitro	propyl	2, 4 – dichlorophenyl
	2	nitro	propyl	3, 4 – dichlorophenyl
30	2	nitro	propyl	2 - bromophenyl
	2	nitro	propyl	3 – bromophenyl
	2	nitro	propyl	4 - bromophenyl
	2	nitro	propyl	2 - methylphenyl
35	2	nitro	propyl	3 – methylphenyl
33	2	nitro	propyl	4 – methylphenyl 2 – methoxyphenyl
	2	nitro	propyl	3 – methoxyphenyl
	2	nitro	propyl	4 41
	2	nitro	propyl	2, 3 - dimethoxyphenyl
40	2	nitro	propyl propyl	2, 4 – dimethoxyphenyl
	2		propyl	3, 4 – dimethoxyphenyl
	2	nitro	propyl	3, 5 – dimethoxyphenyl
	2	nitro nitro	propyl	3, 4-( methylenedioxy ) phenyl
	2	nitro	propyl	3, 4 – (ethylenedioxy) phenyl
45	2	nitro	propyl	2 – hydroxyphenyl
	2	nitro	propyl	
		nitro	propyl	4 - hydroxyphenyl
	2	nitro	propyl	2 – aminophenyl
50	2	nitro	propyl	3 – aminophenyl
<del></del>	2	nitro	propyl	
	2	nitro	propyl	
	2	nitro	propyl	
	$\frac{2}{2}$	nitro	ргоруі	
55	<u></u>	1 41110	1 5.057.	

# Table 2(continuation 14)

[ m ]	R <sup>1</sup>	R <sup>3</sup>	Z
	nitro	propyl	2 - ( dimethylamino ) phenyl
$\frac{2}{2}$	nitro	propyl	3 – (dimethylamino) phenyl
$\frac{2}{2}$	nitro		4 – (dimethylamino) phenyl
2	nitro	propyl	2 – carboxyphenyl
		propyl	3 – carboxyphenyl
2	nitro	propyl	
2	nitro	propyl	4 – carboxyphenyl
2	nitro	propyl	2 - ( methylcarbamoyl ) phenyl
2	nitro	propyl	3 - ( methylcarbamoyl ) phenyl
2	nitro	propyl	4 – ( methylcarbamoyl ) phenyl
2	nitro	propyl	2 - ( methoxycarbonyl ) phenyl
2	nitro	propyl	3 - ( methoxycarbonyl ) phenyl
2	nitro	propyl	4 – ( methoxycarbonyl ) phenyl
2	nitro	propyl	2 – (ethoxycarbonyl) phenyl
2	nitro	propyl	3 - (ethoxycarbonyl) phenyl
2	nitro	propyl	4 - (ethoxycarbonyl) phenyl
2	nitro	propyl	2 - (acetyloxy) phenyl
2	nitro	propyl	3 - ( acetyloxy ) phenyl
2	nitro	propyl	4 - ( acetyloxy ) phenyl
2	nitro	propyl	2 - ( propionyloxy ) phenyl
2	nitro	propyl	3 - (propionyloxy) phenyl
2	nitro	propyl	4 - (propionyloxy) phenyl
2	nitro	propyl	2 - trifluoromethylphenyl
2	nitro	propyl	3 - trifluoromethylphenyl
2	nitro	propyl	4 - trifluoromethylphenyl
2	nitro	propyl	2 – thienyl
2	nitro	propyl	3 – thienyl
2	nitro	propyl	2 – furyl
2	nitro	propyl	3 – furyl
2	nitro	propyl	2 – pyridyl
2	nitro	propyl	3 – pyridyl
2	nitro	propyl	4 – pyridyl
1_1_	nitro	isopropyl	phenyl
1	nitro	isopropyl	2 – fluorophenyl
1	nitro	isopropyl	3 – fluorophenyl
1	nitro	isopropyl	4 - fluorophenyl 2, 4 - difluorophenyl
1	nitro	isopropyl	2, 4 - difluorophenyl 2, 5 - difluorophenyl
1	nitro	isopropyl	2, 3 — diadorophenyi
1	nitro	isopropyl	2, 6 – difluorophenyl
1	nitro	isopropyl	3, 4 – difluorophenyl
1	nitro	isopropyl	3, 5 – difluorophenyl
1 ·	nitro	isopropyl	2 – chlorophenyl
1	nitro	isopropyl	3 – chlorophenyl
1	nitro	isopropyl	4 – chlorophenyl
1	nitro	isopropyl	2, 4 – dichlorophenyl
1	nitro	isopropyl	3, 4 – dichlorophenyl
1	nitro	isopropyl	2 – bromophenyl
1	nitro	isopropyl	3 – bromophenyl
1	nitro	isopropyl	4 – bromophenyl

### Table 2(continuation 15)

	m	R¹	R <sup>3</sup>	2
5	1	nitro	isopropyl	2 - methylphenyl
5	1	nitro	isopropyl	3 - methylphenyl
	1	nitro	isopropyl	4 - methylphenyl
	i	nitro	isopropyl	2 - methoxyphenyl
		nitro	isopropyl	3 - methoxyphenyl
10	1	nitro	isopropyl	4 - methoxyphenyl
	1	nitro	isopropyl	2, 3 - dimethoxyphenyl
	$\frac{1}{1}$	nitro	isopropyl	2, 4 - dimethoxyphenyl
	1	nitro	isopropyl	3, 4 – dimethoxyphenyl
	1	nitro	isopropyl	3, 5 - dimethoxyphenyl
15	1	nitro	isopropyl	3, 4 - ( methylenedioxy ) phenyl
	1	nitro	isopropyl	3, 4 – (ethylenedioxy) phenyl
	1	nitro	isopropyl	2 – hydroxyphenyl
	1	nitro	isopropyl	3 - hydroxyphenyl
Δ	1	nitro	isopropyl	4 – hydroxyphenyl
20	1	nitro	isopropyl	2 – aminophenyl
	1	nitro	isopropyl	3 – aminophenyl
	1	nitro	isopropyl	4 – aminophenyl
	1	nitro	isopropyl	2 – ( methylamino ) phenyl
25	1	nitro	isopropyl	3 - ( methylamino ) phenyl
25	i	nitro	isopropyl	4 - ( methylamino ) phenyl
	1	nitro	isopropyl	2 - (dimethylamino) phenyl
	1	nitro	isopropyl	3 - (dimethylamino) phenyl
	1	nitro	isopropyl	4 - ( dimethylamino ) phenyl
30	1	nitro	isopropyl	2 – carboxyphenyl
	1	nitro	isopropyl	3 - carboxyphenyl
	1	nitro	isopropyl	4 – carboxyphenyl
	1	nitro	isopropyl	2 - ( methylcarbamoyl ) phenyl
	1	nitro	isopropyl	3 - ( methylcarbamoyl ) phenyl
35	1	nitro	isopropyl	4 - ( methylcarbamoyl ) phenyl
	1	nitro	isopropyl	2 – ( methoxycarbonyl ) phenyl
	1	nitro	isopropyl	3 - ( methoxycarbonyl ) phenyl
	1	nitro	isopropyl	4 - ( methoxycarbonyl ) phenyl
40	1	nitro	isopropyl	2 - ( ethoxycarbonyl ) phenyl
40	1	nitro	isopropyl	3 - (ethoxycarbonyl) phenyl
	1	nitro	isopropyl	4 – ( ethoxycarbonyl ) phenyl
	1	nitro	isopropyl	2 – ( acetyloxy ) phenyl
	1	nitro	isopropyl	3 – ( acetyloxy ) phenyl
45	1	nitro	isopropyl	4 – ( acetyloxy ) phenyl
	1	nitro	isopropyl	2 – ( propionyloxy ) phenyl
	1	nitro	isopropyl	3 – ( propionyloxy ) phenyl
	1	nitro	isopropyl	4 – ( propionyloxy ) phenyl
	1	nitro	isopropyl	2 - trifluoromethylphenyl
50	1	nitro	isopropyl	3 - trifluoromethylphenyl
	1	nitro	isopropyl	4 - trifluoromethylphenyl
	1	nitro	isopropyl	2 – thienyl
	1	nitro	isopropyl	3 – thienyl
	1	nitro	isopropyl	2 – furyl
55				

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# Table 2(continuation 16)

	R1	R <sup>3</sup>	Z
m		<del></del>	3 – furyl
1	nitro	isopropyl	
1	nitro	isopropyl	2 – pyridyl
1	nitro	isopropyl	3 – pyridyl
1	nitro	isopropyl	4 – pyridyl
2	nitro	isopropyl	phenyl
2	nitro	isopropyl	2 – fluorophenyl
2 2 2 2	nitro	isopropyl	3 – fluorophenyl
2	nitro	isopropyl	4 – fluorophenyl
2	nitro	isopropyl	2, 4 - difluorophenyl
2	nitro	isopropyl	2, 5 - difluorophenyl
	nitro	isopropyl	2, 6 - difluorophenyl
2 2	nitro	isopropyl	3, 4 - difluorophenyl
2	nitro	isopropyl	3, 5 - difluorophenyl
2	nitro	isopropyl	2 – chlorophenyl
2	nitro	isopropyl	3 – chlorophenyl
2	nitro	isopropyl	4 – chlorophenyl
2	nitro	isopropyl	2, 4 – dichlorophenyl
2	nitro	isopropyl	3, 4 – dichlorophenyl
2	nitro	isopropyl	2 – bromophenyl
2	nitro	isopropyl	3 – bromophenyl
2	nitro	isopropyl	4 – bromophenyl
2	nitro	isopropyl	2 - methylphenyl
2			3 – methylphenyl
2	nitro	isopropyl	4 – methylphenyl
2	nitro	isopropyl	2 - methoxyphenyl
2	nitro	isopropyl	3 – methoxyphenyl
2	nitro	isopropyl	4 - methoxyphenyl
	nitro	isopropyl	2, 3 – dimethoxyphenyl
2	nitro	isopropyl	2, 4 – dimethoxyphenyl
	nitro	isopropyl	· 3,4 – dimethoxyphenyl
2	nitro	isopropyl	3, 5 – dimethoxyphenyl
	nitro	isopropyl	3, 4 – ( methylenedioxy ) phenyl
2	nitro	isopropyl	
2	nitro	isopropyl	3, 4 – (ethylenedioxy) phenyl
	nitro	isopropyl	2 hydroxyphenyl
2	nitro	isopropyl	3 – hydroxyphenyl
2	nitro	isopropyl	4 – hydroxyphenyl
2	nitro	isopropyl	2 - aminophenyl
2	nitro	isopropyl	3 – aminophenyl
2	nitro	isopropyl	4 – aminophenyl
2	nitro	isopropyl	2 - ( methylamino ) phenyl
2	nitro	isopropyl	3 - ( methylamino ) phenyl
2	nitro_	isopropyl	4 – ( methylamino ) phenyl
2	nitro	isopropyl	2 - (dimethylamino) phenyl
2	nitro	isopropyl	3 - (dimethylamino) phenyl
2	nitro	isopropyl	4 – (dimethylamino) phenyl
2	nitro	isopropyl	2 – carboxyphenyl
2	nitro	isopropyl	3 - carboxyphenyl
		isopropyl	4 – carboxyphenyl

# Table 2(continuation 17)

	m	R'	R <sup>3</sup>	Z
5	2	nitro	isopropyl	2 – ( methylcarbamoyl ) phenyl
•	2	nitro	isopropyl	3 - ( methylcarbamoyl ) phenyl
	2	nitro	isopropyl	4 - ( methylcarbamoyl ) phenyl
	2	nitro	isopropyl	2 - ( methoxycarbonyl ) phenyl
	2	nitro	isopropyl	3 - ( methoxycarbonyl ) phenyl
10	2	nitro	isopropyl	4 – ( methoxycarbonyl ) phenyl
	2	nitro	isopropyl	2 - (ethoxycarbonyl) phenyl
	2	nitro	isopropyl	3 - (ethoxycarbonyl) phenyl
	2	nitro	isopropyl	4 – (ethoxycarbonyl) phenyl
			isopropyl	2 - ( acetyloxy ) phenyl
15	2	nitro	isopropyl	3 - (acetyloxy) phenyl
	2	nitro	isopropyl	4 – (acetyloxy) phenyl
	2	nitro	isopropyl	2 – (propionyloxy) phenyl
		nitro		3 – (propionyloxy) phenyl
	2	nitro	isopropyl isopropyl	4 – ( propionyloxy ) phenyl
20	2	nitro	isopropyl	2 - trifluoromethylphenyl
	2	nitro nitro	isopropyl	3 - trifluoromethylphenyl
	2	nitro	isopropyl	4 - trifluoromethylphenyl
		nitro	isopropyl	2 – thienyl
25	2	nitro	isopropyl	3 – thienyl
25	1 2	nitro	isopropyl	2 – furyl
	2	nitro	isopropyl	3 – furyl
	2	nitro	isopropyl	2 – pyridyl
	2	nitro	isopropyl	3 – pyridyl
30	2	nitro	isopropyl	4 – pyridyl
	1	nitro	butyl	phenyl
	l-i-	nitro	butyl	2 – fluorophenyl
	1	nitro	butyl	3 - fluorophenyl
	i	nitro	butyl	4 – fluorophenyl
35	1	nitro	butyl	2, 4 - difluorophenyl
	<del>l i</del>	nitro	butyl	2, 5 - difluorophenyl
	1	nitro	butyl	2, 6 - difluorophenyl
	i	nitro	butyl	3, 4 - difluorophenyl
0.	1	nitro	butyl	3, 5 - difluorophenyl
40	l i	nitro	butyl	2 – chlorophenyl
	1	nitro	butyl	3 – chlorophenyl
	1	nitro	butyl	4 - chlorophenyl
	1	nitro	butyl	2, 4 - dichlorophenyl
45	1	nitro	butyl	3, 4 - dichlorophenyl
73	1	nitro	butyl	2 – bromophenyl
	1	nitro	butyl	3 – bromophenyl
	1	nitro	butyl	4 – bromophenyl
	i	nitro	butyl	2 - methylphenyl
50	i	nitro	butyl	3 - methylphenyl
	1	nitro	butyl	4 - methylphenyl
	1	nitro	butyl	2 - methoxyphenyl
	1	nitro	butyl	3 - methoxyphenyl
	· ·			

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4 - methoxyphenyl

butyl

nitro

Table 2(continuation 18)

m	R <sup>1</sup>	R <sup>3</sup>	Z
1	nitro	butyl	2, 3 - dimethoxyphenyl
1	nitro	butyl	2, 4 - dimethoxyphenyl
1	nitro	butyl	3, 4 - dimethoxyphenyl
1	nitro	butyl	3, 5 - dimethoxyphenyl
1	nitro	butyl	3, 4-( methylenedioxy ) phenyl
1	nitro	butyl	3, 4 - (ethylenedioxy) phenyl
1	nitro	butyl	2 – hydroxyphenyl
1	nitro	butyl	3 – hydroxyphenyl
1	nitro	butyl	4 – hydroxyphenyl
1	nitro	butyl	2 - aminophenyl
1	nitro	butyl	3 – aminophenyl
1	nitro	butyl	4 – aminophenyl
1	nitro	butyi	2 – ( methylamino ) phenyl
1	nitro	butyl	3 - ( methylamino ) phenyl
1	nitro	butyl	4 – ( methylamino ) phenyl
1	nitro	butyl	2 - ( dimethylamino ) phenyl
1	nitro	butyl	3 - ( dimethylamino ) phenyl
1	nitro	butyl	4 - ( dimethylamino ) phenyl
1	nitro	butyl	2 – carboxyphenyl
1	nitro	butyl	3 - carboxyphenyl
1	nitro	butyl	4 – carboxyphenyl
1	nitro	butyl	2 - ( methylcarbamoyl ) phenyl
1	nitro	butyl	3 - ( methylcarbamoyl ) phenyl
1	nitro	butyl	4 - ( methylcarbamoyl ) phenyl
1	nitro	butyl	2 - ( methoxycarbonyl ) phenyl
1	pitro	butyl	3 - ( methoxycarbonyl ) phenyl
1	nitro	butyl	4 – ( methoxycarbonyl ) phenyl
1	nitro	butyl	2 - (ethoxycarbonyl) phenyl
• 1	nitro	butyl	3 – (ethoxycarbonyl) phenyl
1	nitro	butyl	4 - (ethoxycarbonyl) phenyl
1	nitro	butyl	2 - (acetyloxy) phenyl
1	nitro	butyl	3 – (acetyloxy) phenyl
1	nitro	butyl	4 – (acetyloxy) phenyl
1	nitro	butyl	2 – ( propionyloxy ) phenyl
1	nitro	butyl	3 – ( propionyloxy ) phenyl 4 – ( propionyloxy ) phenyl
1	nitro	butyl butyl	2 - trifluoromethylphenyl
1	nitro		3 - trifluoromethylphenyl
	nitro	butyl	4 - trifluoromethylphenyl
1	nitro	butyl butyl	2 – thienyl
	nitro		3 – thienyl
1 1	nitro	butyl	2 – furyl
1	nitro	butyl	2 - tuyl 3 - furyl
1	nitro	butyl	
1	nitro	butyl butyl	2 – pyridyl 3 – pyridyl
1	nitro		4 – pyridyl
1	nitro	butyl	phenyl
2	nitro	butyl	2 – fluorophenyl
2	nitro	butyl	2 – Huorophenyi

# Table 2(continuation 19)

	m	R¹	R <sup>3</sup>	Z
_	2	nitro	butyl	3 – fluorophenyl
5	2	nitro	butyl	4 – fluorophenyl
	2	nitro	butyl	2, 4 - difluorophenyl
	2	nitro	butyl	2, 5 - difluorophenyl
	2	nitro	butyl	2, 6 - difluorophenyl
10	2	nitro	butyl	3, 4 - difluorophenyl
	2	nitro	butyl	3, 5 - difluorophenyl
		nitro	butyl	2 – chlorophenyl
	2		butyl	3 – chlorophenyl
	2	nitro	butyl	4 – chlorophenyl
15	2	nitro	butyl	2, 4 - dichlorophenyl
	2	nitro nitro	butyl	3, 4 – dichlorophenyl
	2		butyl	2 – bromophenyl
	2	nitro	butyl	3 – bromophenyl
	2	nitro	butyl	4 – bromophenyl
20	2	nitro	butyl	2 – methylphenyl
	2	nitro		3 – methylphenyl
	2	nitro	butyl butyl	4 – methylphenyl
	2	nitro	butyl	2 – methoxyphenyl
	2	nitro	butyl	3 – methoxyphenyl
25	2	nitro	butyl	4 – methoxyphenyl
	2	nitro	butyl	2, 3 – dimethoxyphenyl
	2	nitro	butyl	2, 4 – dimethoxyphenyl
	2	nitro	butyl	3, 4 - dimethoxyphenyl
30	2	nitro nitro	butyl	3,5 - dimethoxyphenyl
30	2	nitro	butyl	3, 4 - ( methylenedioxy ) phenyl
	2	nitro	butyl	3, 4 - (ethylenedioxy) phenyl
	2	nitro	butyl	2 – hydroxyphenyl
	2	nitro	butyl	3 – hydroxyphenyl
35	2	nitro	butyl	4 – hydroxyphenyl
	2	nitro	butyl	2 - aminophenyl
	2	nitro	butyl	3 - aminophenyl
	2	nitro	butyl	4 – aminophenyl
	2	nitro	butyl	2 - ( methylamino ) phenyl
40	2	nitro	butyl	3 - ( methylamino ) phenyl
	2	nitro	butyl	4 - ( methylamino ) phenyl
	2	nitro	butyl	2-(dimethylamino) phenyl
	2	nitro	butyl	3-(dimethylamino) phenyl
-	2	nitro	butyl	4-(dimethylamino) phenyl
45	2	nitro	butyl	2 - carboxyphenyl
	2	nitro	butyl	3 – carboxyphenyl
	2	nitro	butyl	4 – carboxyphenyl
	2	nitro	butyl	2 - ( methylcarbamoyl ) phenyl
50	2	nitro	butyl	3 - ( methylcarbamoyl ) phenyl
50	2	nitro	butyl	4 - (methylcarbamoyl) phenyl
		nitro	butyl	2 - (methoxycarbonyl) phenyl
	2		butyl	3 - (methoxycarbonyl) phenyl
	2	nitro		4 - ( methoxycarbonyl ) phenyl
22	2	nitro	butyl	4 - ( incline) caroon ji j pacity:

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# Table 2(continuation 20)

m	R¹	R³	Z
2	nitro	butyl	2 - (ethoxycarbonyl) phenyl
2	nitro	butyl	3 – (ethoxycarbonyl) phenyl
2	nitro	butyl	4 – (ethoxycarbonyl) phenyl
2	nitro	butyl	2 - ( acetyloxy ) phenyl
2	nitro	butyl	3 - ( acetyloxy ) phenyl
2	nitro	butyl	4 – ( acetyloxy ) phenyl
2	nitro	butyl	2 – ( propionyloxy ) phenyl
2	nitro	butyl	3 – ( propionyloxy ) phenyl
2	nitro	butyl	4 - ( propionyloxy ) phenyl
2	nitro	butyl	2 - trifluoromethylphenyl
2	nitro	butyl	3 - trifluoromethylphenyl
2	nitro	butyl	4 - trifluoromethylphenyl
2	nitro	butyl	2 – thienyl
2	nitro	butyl	3 – thienyl
2	nitro	butyl	2 – furyl
2	nitro	butyl	3 – furyl
2	nitro	butyl	2 – pyridyl
2	nitro	butyl	3 – pyridyl
2	nitro	butyl	4 – pyridyl
1	nitro	hydroxyethyl	phenyl
1	nitro	hydroxyethyl	2 – fluorophenyl
1	nitro	hydroxyethyl	3 - fluorophenyl
1	nitro	hydroxyethyl	4 - fluorophenyl
i	nitro	hydroxyethyl	2, 4 - difluorophenyl
1	nitro	hydroxyethyl	2, 5 - difluorophenyl
1	nitro	hydroxyethyl	2, 6 - difluorophenyl
i	nitro	bydroxyethyl	3, 4 - difluorophenyl
1	nitro	hydroxyethyl	3, 5 - difluorophenyl
1	nitro	hydroxyethyl	2 - chlorophenyl
1	nitro	hydroxyetbyl	3 – chlorophenyl
1	nitro	hydroxyethyl	4 – chlorophenyl
1	nitro	hydroxyethyl	2, 4 - dichlorophenyl
1	nitro	hydroxyethyl	3, 4 – dichlorophenyl
1	nitro	hydroxyethyl	2 – bromophenyl
1	nitro	hydroxyethyl	3 – bromophenyl
1	nitro	hydroxyethyl	4 – bromophenyl
1	nitro	hydroxyethyl	2 - methylphenyl
1	nitro	hydroxyethyl	3 – methylphenyl
1	nitro	hydroxyethyl	4 - methylphenyl
1	nitro	hydroxyethyl	2 – methoxyphenyl
1	nitro	hydroxyethyl	3 – methoxyphenyl
1	nitro	hydroxyethyl	4 - methoxyphenyl
1	nitro	hydroxyethyl	2, 3 - dimethoxyphenyl
i	nitro	hydroxyethyl	2, 4 - dimethoxyphenyl
1	nitro	hydroxyethyl	3, 4 - dimethoxyphenyl
i	nitro	hydroxyethyl	3, 5 - dimethoxyphenyl
1	nitro	hydroxyethyl	3, 4 - ( methylenedioxy ) phenyl
1	nitro	hydroxyethyl	3, 4 - (ethylenedioxy) phenyl
		1 -)	<u> </u>

# Table 2(continuation 21)

m	R <sup>1</sup>	R <sup>3</sup>	Z
	nitro	hydroxyethyl	2 – hydroxyphenyl
1	nitro	hydroxyethyl	3 – hydroxyphenyl
1	nitro	hydroxyethyl	4 – hydroxyphenyl
1	nitro	hydroxyethyl	2 – aminophenyl
i	nitro	hydroxyethyl	3 – aminophenyl
1	nitro	hydroxyethyl	4 – aminophenyl
1	nitro	hydroxyethyl	2 - ( methylamino ) phenyl
i	nitro	hydroxyethyl	3 - ( methylamino ) phenyl
I i	nitro	hydroxyethyl	4 - ( methylamino ) phenyl
1	nitro	hydroxyethyl	2 - ( dimethylamino ) phenyl
1	nitro	hydroxyethyl	3 - ( dimethylamino ) phenyl
1	nitro	hydroxyethyl	4 - ( dimethylamino ) phenyl
1	nitro	hydroxyethyl	2 – carboxyphenyl
1	nitro	hydroxyethyl	3 – carboxyphenyl
i	nitro	hydroxyethyl	4 – carboxyphenyl
1	nitro	hydroxyethyl	2-( methylcarbamoyl ) phenyl
1	nitro	hydroxyethyl	3 – ( methylcarbamoyl ) phenyl
1	nitro	hydroxyethyl	4 – ( methylcarbamoyl ) phenyl
1	nitro	hydroxyethyl	2-( methoxycarbonyl ) phenyl
1	nitro	hydroxyethyl	3 - ( methoxycarbonyl ) phenyl
1	nitro	hydroxyethyl	4 – ( methoxycarbonyl ) phenyl
1	nitro	hydroxyethyl	2 - (ethoxycarbonyl) phenyl
1	nitro	hydroxyethyl	3 - (ethoxycarbonyl) phenyl
1	nitro	hydroxyethyl	4 - (ethoxycarbonyl) phenyl
1	nitro	hydroxyethyl	2 - (acetyloxy) phenyl
11	nitro	hydroxyethyl	3 – (acetyloxy) phenyl
1	nitro	hydroxyethyl	4 – (acetyloxy) phenyl
1	nitro	hydroxyethyl	2 - (propionyloxy) phenyl
1	nitro	hydroxyethyl	3 - (propionyloxy) phenyl
1	nitro	hydroxyethyl	4 - ( propionyloxy ) phenyl 2 - trifluoromethylphenyl
1	nitro	hydroxyethyl	3 - trifluoromethylphenyl
1	nitro	hydroxyethyl hydroxyethyl	4 - trifluoromethylphenyl
1	nitro	hydroxyethyl	2 – thienyl
1	nitro nitro	hydroxyethyl	3 – thienyl
1	nitro	hydroxyethyl	2 – furyl
1	nitro	hydroxyethyl	3 – furyl
1	nitro	hydroxyethyl	2 – pyridyl
1	nitro	hydroxyethyl	3 – pyridyl
1	nitro	hydroxyethyl	4 – pyridyl
2	nitro	hydroxyethyl	phenyl
2	nitro	hydroxyethyl	2 – fluorophenyl
2	nitro	hydroxyethyl	3 – fluorophenyl
2	nitro	hydroxyethyl	4 – fluorophenyl
2	nitro	hydroxyethyl	2, 4 – difluorophenyl
2	nitro	hydroxyethyl	2, 5 – difluorophenyl
2	nitro	hydroxyethyl	2, 6 - difluorophenyl
2	nitro	hydroxyethyl	3, 4 – difluorophenyl

# Table 2(continuation 22)

	R;	R³	Z
	nitro	hydroxyethyl	3, 5 – difluorophenyl
2	nitro	hydroxyethyl	2 – chlorophenyl
2	nitro	hydroxyethyl	3 – chlorophenyl
2		hydroxyethyl	4 – chlorophenyl
	nitro		
2	nitro	hydroxyethyl	2, 4 – dichlorophenyl
2	nitro	hydroxyethyl	3, 4 – dichlorophenyl
2	nitro	hydroxyethyl	2 - bromophenyl
2	nitro	hydroxyethyl	3 – bromophenyl
2	nitro	hydroxyethyl	4 – bromophenyl
2	nitro	hydroxyethyl	2 - methylphenyl
2	nitro	bydroxyethyl	3 - methylphenyl
2	nitro	hydroxyethyl	4 - methylphenyl
2	nitro	hydroxyethyl	2 – methoxyphenyl
2	nitro	hydroxyethyl	3 - methoxyphenyl
2	nitro	hydroxyethyl	4 - methoxyphenyl
2	nitro	hydroxyethyl	2, 3 - dimethoxyphenyl
2	nitro	hydroxyethyl	2, 4 – dimethoxyphenyl
2 2 2 2	nitro	hydroxyethyl	3, 4 - dimethoxyphenyl
2	nitro	hydroxyethyl	3, 5 - dimethoxyphenyl
2	nitro	hydroxyethyl	3, 4 – ( methylenedioxy ) phenyl
2	nitro	hydroxyethyl	3, 4 - ( ethylenedioxy ) phenyl
2	nitro	hydroxyethyl	2 – hydroxyphenyl
2	nitro	hydroxyethyl	3 – hydroxyphenyl
2	nitro	hydroxyethyl	4 – hydroxyphenyl
2	nitro	hydroxyethyl	2 – aminophenyl
2	nitro	hydroxyethyl	3 - aminophenyl
2	nitro	hydroxyethyl	4 - aminophenyl
2	nitro	hydroxyethyl	2 - ( methylamino ) phenyl
2	nitro	hydroxyethyl	3 – ( methylamino ) phenyl
2	nitro	hydroxyethyl	4 - ( methylamino ) phenyl
	nitro	hydroxyethyl	2 – ( dimethylamino ) phenyl
2	nitro	hydroxyethyl	3 - ( dimethylamino ) phenyl
2	nitro	hydroxyethyl	4 – ( dimethylamino ) phenyl
2	nitro	hydroxyethyl	2 – carboxyphenyl
2	nitro	hydroxyethyl	3 – carboxyphenyl
2	nitro	hydroxyethyl	4 – carboxyphenyl
2	nitro	hydroxyethyl	2 - ( methylcarbamoyl ) phenyl
2	nitro	hydroxyethyl	3 - ( methylcarbamoyl ) phenyl
2	nitro	hydroxyethyl	4 - ( methylcarbamoyl ) phenyl
2	nitro	hydroxyethyl	2 - ( methoxycarbonyl ) phenyl
2	nitro	hydroxyethyl	3 - ( methoxycarbonyl ) phenyl
2	nitro	hydroxyethyl	4 - ( methoxycarbonyl ) phenyl
2	nitro	hydroxyethyl	2 - (ethoxycarbonyl) phenyl
2	nitro	hydroxyethyl	3 - (ethoxycarbonyl) phenyl
2	nitro	hydroxyethyl	4 - (ethoxycarbonyl) phenyl
2	nitro	hydroxyethyl	2 – (acetyloxy) phenyl
2	nitro	hydroxyethyl	3 - (acetyloxy) phenyl
2	nitro	hydroxyethyl	4 – (acetyloxy) phenyl
	1100	Linguioxyculyi	, (designary) phonys

# Table 2(continuation 23)

m	R <sup>1</sup>	R³	Z
2	nitro	hydroxyethyl	2 - ( propionyloxy ) phenyl
2	nitro	hydroxyethyl	3 - ( propionyloxy ) phenyl
2	nitro	hydroxyethyl	4 - ( propionyloxy ) phenyl
2	nitro	hydroxyethyl	2 - trifluoromethylphenyl
2	nitro	hydroxyethyl	3 - trifluoromethylphenyl
2	nitro	hydroxyethyl	4 - trifluoromethylphenyl
2	nitro	hydroxyethyl	2 – thienyl
2	nitro	hydroxyethyl	3 – thienyl
2	nitro	hydroxyethyl	2 – furyl
$\frac{2}{2}$	nitro	hydroxyethyl	3 – furyl
2	nitro	hydroxyethyl	2 – pyridyl
2	nitro	hydroxyethyl	3 – pyridyl
2	nitro	hydroxyethyl	4 – pyridyl
1	nitro	methoxyethyl	phenyl
1	nitro	methoxyethyl	2 – fluorophenyl
1	nitro	methoxyethyl	3 – fluorophenyl
1	nitro	methoxyethyl	4 – fluorophenyl
1	nitro	methoxyethyl	2, 4 – difluorophenyl
1	nitro	methoxyethyl	2, 5 – difluorophenyl
1	nitro	methoxyethyl	2, 6 – difluorophenyl
1	nitro	methoxyethyl	3, 4 – difluorophenyl
i	nitro	methoxyethyl	3, 5 – difluorophenyl
1	nitro	methoxyethyl	2 - chlorophenyl
1	nitro	methoxyethyl	3 - chlorophenyl
1	nitro	methoxyethyl	4 – chlorophenyl
1	nitro	methoxyethyl	2, 4 – dichlorophenyl
1	nitro	methoxyethyl	3, 4 - dichlorophenyl
1	nitro	methoxyethyl	2 - bromophenyl
1	nitro	methoxyethyl	3 – bromophenyl
1	nitro	methoxyethyl	4 – bromophenyl
1	nitro	methoxyethyl	2 - methylphenyl
1	nitro	methoxyethyl	3 – methylphenyl
1	nitro	methoxyethyl	4 - methylphenyl
1	nitro	methoxyethyl	2 – methoxyphenyl
1	nitro	methoxyethyl	3 - methoxyphenyl
1	nitro	methoxyethyl	4 - methoxyphenyl
1	nitro	methoxyethyl	2, 3 – dimethoxyphenyl
1	nitro	methoxyethyl	2, 4 - dimethoxyphenyl
1	nitro	methoxyethyl	3, 4 - dimethoxyphenyl
1	nitro	methoxyethyl	3, 5 - dimethoxyphenyl
1	nitro	methoxyethyl	3, 4 - ( methylenedioxy ) phenyl
1	nitro	methoxyethyl	3, 4 – (ethylenedioxy) phenyl
1	nitro	methoxyethyl	2 – hydroxyphenyl
1	nitro	methoxyethyl	3 – hydroxyphenyl
1	nitro	methoxyethyl	4 - hydroxyphenyl
1	nitro	methoxyethyl	2 – aminophenyl
1	nitro	methoxyethyl	3 – aminophenyl
1	nitro	methoxyethyl	4 – aminophenyl

# Table 2(continuation 24)

m	R'	R³	Z
1	nitro	methoxyethyl	2 - ( methylamino ) phenyl
1	nitro	methoxyethyl	3 - ( methylamino ) phenyl
1	nitro	methoxyethyl	4 - ( methylamino ) phenyl
1	nitro	methoxyethyl	2 - ( dimethylamino ) phenyl
1	nitro	methoxyethyl	3 - ( dimethylamino ) phenyl
1	nitro	methoxyethyl	4 - ( dimethylamino ) phenyl
1	nitro	methoxyethyl	2 – carboxyphenyl
1	nitro	methoxyethyl	3 – carboxyphenyl
1	nitro	methoxyethyl	4 – carboxyphenyl
1	nitro	methoxyethyl	2 - ( methylcarbamoyl ) phenyl
1	nitro	methoxyethyl	3 - ( methylcarbamoyl ) phenyl
1	nitro	methoxyethyl	4 – ( methylcarbamoyl ) phenyl
1	nitro	methoxyethyl	2 - ( methoxycarbonyl ) phenyl
1	nitro	methoxyethyl	3 – ( methoxycarbonyl ) phenyl
1	nitro	methoxyethyl	4 - ( methoxycarbonyl ) phenyl
1	nitro	methoxyethyl	2 - ( ethoxycarbonyl ) phenyl
1	nitro	methoxyethyl	3 - (ethoxycarbonyl) phenyl
1	nitro	methoxyethyl	4 - ( ethoxycarbonyl ) phenyl
1	nitro	methoxyethyl	2 – ( acetyloxy ) phenyl
1	nitro	methoxyethyl	3 - (acetyloxy) phenyl
1	nitro	methoxyethyl	4 – ( acetyloxy ) phenyl
1	nitro	metboxyethyl	2 – ( propionyloxy ) phenyl
1	nitro	methoxyethyl	3 – ( propionyloxy ) phenyl
1	nitro	methoxyethyl	4 – ( propionyloxy ) phenyl
1	nitro	methoxyethyl	2 - trifluoromethylphenyl
1	nitro	methoxyethyl	3 - trifluoromethylphenyl
1	nitro	methoxyethyl	4 - trifluoromethylphenyl
1	nitro	methoxyethyl	2 – thienyl
1	nitro	methoxyethyl	3 – thienyl
1	nitro	methoxyethyl	2 – furyl
1	nitro	methoxyethyl	3 – furyl
1	nitro	methoxyethyl	2 – pyridyl
1	nitro	methoxyethyl	3 – pyridyl
1	nitro	methoxyethyl	4 – pyridyl phenyl
2	nitro	methoxyethyl	2 – fluorophenyl
2	nitro	methoxyethyl methoxyethyl	3 – fluorophenyl
	nitro		4 - fluorophenyl
2	nitro	methoxyethyl methoxyethyl	2, 4 – difluorophenyl
	nitro	methoxyethyl	2, 4 – diffuorophenyl  2, 5 – diffuorophenyl
2	nitro nitro	methoxyethyl	2, 6 – difluorophenyl
2		methoxyethyl	3, 4 – difluorophenyl
	nitro nitro	methoxyethyl	3, 5 – difluorophenyl
2		methoxyethyl	2 – chlorophenyl
2	nitro	methoxyethyl	3 – chlorophenyl
2	nitro		4 – chlorophenyl
2	nitro	methoxyethyl methoxyethyl	2, 4 – dichlorophenyl
2	nitro		
2	nitro	methoxyethyl	3, 4 – dichlorophenyl

# Table 2(continuation 25)

m	T	R <sup>1</sup>	R³	Z
2	$\neg \vdash$	nitro	methoxyethyl	2 – bromophenyl
2	$\neg$	nitro	methoxyethyl	3 – bromophenyl
2	_	nitro	methoxyethyl	4 – bromophenyl
2		nitro	methoxyethyl	2 - methylphenyl
2	-	nitro	methoxyethyl	3 - methylphenyl
2	十	nitro	methoxyethyl	4 - methylphenyl
$\frac{2}{2}$	_	nitro	methoxyethyl	2 – methoxyphenyl
2	_	nitro	methoxyethyl	3 - methoxyphenyl
2	_	nitro	methoxyethyl	4 – methoxyphenyl
2	$\neg$	nitro	methoxyethyl	2, 3 - dimethoxyphenyl
2	-	nitro	methoxyethyl	2, 4 - dimethoxyphenyl
2	_	nitro	methoxyethyl	3, 4 - dimethoxyphenyl
2		nitro	methoxyethyl	3, 5 - dimethoxyphenyl
2		nitro	methoxyethyl	3, 4 – ( methylenedioxy ) phenyl
2	-	nitro	methoxyethyl	3, 4 - (ethylenedioxy) phenyl
2		nitro	methoxyethyl	2 - hydroxyphenyl
2		nitro	methoxyethyl	3 – hydroxyphenyl
2		nitro	methoxyethyl	4 — hydroxyphenyl
2		nitro	methoxyethyl	2 - aminophenyl
2		nitro	methoxyethyl	3 - aminophenyl
2		nitro	methoxyethyl	4 – aminophenyl
2		nitro	methoxyethyl	2 - ( methylamino ) phenyl
2		nitro	methoxyethyl	3 - (methylamino) phenyl
2		nitro	methoxyethyl	4 - ( methylamino ) phenyl
2		nitro	methoxyethyl	2 - (dimethylamino) phenyl
2		nitro	methoxyethyl	3 - (dimethylamino) phenyl
2		nitro	methoxyethyl	4 – (dimethylamino) phenyl
2		nitro	methoxyethyl	2 - carboxyphenyl 3 - carboxyphenyl
2		nitro	methoxyethyl	4 carboxyphenyl
2		nitro	methoxyethyl	2 – ( methylcarbamoyl ) phenyl
2		nitro	methoxyethyl	3 - (methylcarbamoyl) phenyl
2		nitro	methoxyethyl methoxyethyl	4 – (methylcarbamoyl) phenyl
2		nitro	methoxyethyl	2 – (methoxycarbonyl) phenyl
		nitro	methoxyethyl	3 - (methoxycarbonyl) phenyl
		nitro nitro	methoxyethyl	4 – (methoxycarbonyl) phenyl
		nitro	methoxyethyl	2 - (ethoxycarbonyl) phenyl
	2	nitro	methoxyethyl	3 – (cthoxycarbonyl) phenyl
	2	nitro	methoxyethyl	4 - (cthoxycarbonyl) phenyl
	2	nitro	methoxyethyl	2 - (acetyloxy) phenyl
	2	nitro	methoxyethyl	3 - ( acetyloxy ) phenyl
	2	nitro	methoxyethyl	4 – ( acetyloxy ) phenyl
	2	nitro	methoxyethyl	2 - ( propionyloxy ) phenyl
	2	nitro	methoxyethyl	3 - ( propionyloxy ) phenyl
	2	nitro	methoxyethyl	4 – ( propionyloxy ) phenyl
	2	nitro	methoxyethyl	2 - trifluoromethylphenyl
	2	nitro	methoxyethyl	3 - trifluoromethylphenyl
	2	nitro	methoxyethyl	4 - trifluoromethylphenyl
<u></u>			1	

# Table 2(continuation 26)

: :..

m	R <sup>1</sup>	R <sup>3</sup>	Z
2	nitro	methoxyethyl	2 – thienyl
	nitro	methoxyethyl	3 – thienyl
2 2 2 2 2 2	nitro	methoxyethyl	2 – furyl
2	nitro	methoxyethyl	. 3 – furyl
2	nitro	methoxyethyl	2 – pyridyl
2	nitro	methoxyethyl	3 – pyridyl
2	nitro	methoxyethyl	4 – pyridyl
1	nitro	aminoethyl	phenyl
i	nitro	aminoethyl	2 – fluorophenyl
1	nitro	aminoethyl	3 - fluorophenyl
1	nitro	aminoethyl	4 – fluorophenyl
1	nitro	aminoethyl	2, 4 - difluorophenyl
1	nitro	aminoethyl	2, 5 - difluorophenyl
1	nitro	aminoethyl	2, 6 - difluorophenyl
i	nitro	aminoethyl	3, 4 - difluorophenyl
1	nitro	aminoethyl	3, 5 - difluorophenyl
i	nitro	aminoethyl ·	2 - chlorophenyl
i	nitro	aminoethyl	3 - chlorophenyl
1	nitro	aminoethyl	4 - chlorophenyl
1	nitro	aminoethyl	2, 4 - dichlorophenyl
i	nitro	aminoethyl	3, 4 - dichlorophenyl
1	nitro	aminoethyl	2 – bromophenyl
i	aitro	aminoethyl	3 – bromophenyl
1	nitro	aminoethyl	4 – bromophenyl
1	nitro	aminoethyl	2 – methylphenyl
1	nitro	aminoethyl	3 - methylphenyl
1	nitro	aminoethyl	4 - methylphenyl
1	nitro	aminoethyl	2 – methoxyphenyl
1	nitro	aminoethyl	3 - methoxyphenyl
1	nitro	aminoethyl	4 - methoxyphenyl
11	nitro	aminoethyl	2, 3 – dimethoxyphenyl
1	nitro	aminoethyl	2, 4 - dimethoxyphenyl
1	nitro	aminoethyl	3, 4 – dimethoxyphenyl
1	nitro	aminoethyl	3, 5 – dimethoxyphenyl
1	nitro	aminoethyl	3, 4 – (methylenedioxy) phenyl
1	nitro	aminoethyl	3,4 – (ethylenedioxy) phenyl
1	nitro	aminoethyl	2 – hydroxyphenyl
1-1-	nitro	aminoethyl	3 – hydroxyphenyl
1	nitro	aminoethyl	4 – hydroxyphenyl
1	nitro	aminoethyl	2 – aminophenyl
1	nitro	aminoethyl	3 – aminophenyl
1	nitro	aminoethyl	4 – aminophenyl
1	nitro	aminoethyl	2 – ( methylamino ) phenyl
1	nitro	aminoethyl	3 – ( methylamino ) phenyl
1	nitro	aminoethyl	4 – (methylamino) phenyl
1	nitro	aminoethyl	2 – (dimethylamino) phenyl
1	nitro	aminoethyl	3 - (dimethylamino) phenyl
1	nitro	aminoethyl	4 - ( dimethylamino ) phenyl

# Table 2(continuation 27)

m	R1	R <sup>3</sup>	Z
1	nitro	aminoethyl	2 - carboxyphenyl
i	nitro	aminoethyl	3 – carboxyphenyl
i	nitro	aminoethyl	4 - carboxyphenyl
l i	nitro	aminoethyl	2 – ( methylcarbamoyl ) phenyl
1	nitro	aminoethyl	3 - ( methylcarbamoyl ) phenyl
$\frac{1}{1}$	nitro	aminoethyl	4 - ( methylcarbamoyl ) phenyl
1	nitro	aminoethyl	2 - ( methoxycarbonyl ) phenyl
1	nitro	aminoethyl	3 - ( methoxycarbonyl ) phenyl
	nitro	aminoethyl	4 – ( methoxycarbonyl ) phenyl
1	nitro	aminoethyl	2 - (ethoxycarbonyl) phenyl
1	nitro	aminoethyl	3 - (ethoxycarbonyl) phenyl
1	nitro	aminoethyl	4 – (ethoxycarbonyl) phenyl
i	nitro	aminoethyl	2-(acetyloxy) phenyl
1	nitro	aminoethyl	3 - (acetyloxy) phenyl
1	nitro	aminoethyl	4 – (acetyloxy) phenyl
1	nitro	aminoethyl	2 – (propionyloxy) phenyl
1	nitro	aminoethyl	3 – (propionyloxy) phenyl
1	nitro	aminocthyl	4 - (propionyloxy) phenyl
1	nitro	aminoethyl	2 - trifluoromethylphenyl
- <del> -</del>	nitro	aminoethyl	3 - trifluoromethylphenyl
i	nitro	aminoethyl	4 - trifluoromethylphenyl
1	nitro	aminoethyl	2 - thienyl
1	nitro	aminoethyl	3 – thienyl
1	nitro	aminoethyl	2 – furyl
i	nitro	aminoethyl	3 – furyl
1	nitro	aminoethyl	2 – pyridyl
1	nitro	aminoethyl	3 – pyridyl
1	nitro	aminoethyl	4 – pyridyl
2	nitro	aminoethyl	phenyl
2	nitro	aminoethyl	2 – fluorophenyl
2	nitro	aminoethyl	3 - fluorophenyl
2	nitro	aminoethyl	4 – fluorophenyl
2	nitro	aminoethyl	2, 4 – difluorophenyl
2	nitro	aminoethyl	2, 5 – difluorophenyl
2	nitro	aminoethyl	2, 6 - difluorophenyl
2	nitro	aminoethyl	3, 4 – difluorophenyl
2	nitro	aminoethyl	3, 5 – difluorophenyl
2	nitro	aminoethyl	2 - chlorophenyl
2	nitro	aminoethyl	3 – chlorophenyl
2	nitro	aminoethyl	4 – chlorophenyl
2	nitro	aminoethyl	2, 4 – dichlorophenyl
2	nitro	aminoethyl	3, 4 – dichlorophenyl
2	nitro	aminoethyl	2 - bromophenyl
2	nitro	aminoethyl	3 – bromophenyl
2	nitro	aminoethyl	4 – bromophenyl
2	nitro	aminoethyl	2 - methylphenyl
2	nitro	aminoethyl	3 - methylphenyl
2		aminoethyl	4 - methylphenyl

4,5.

Table 2(continuation 28)

m	R'	R³	Z
2	nitro	aminoethyl	2 – methoxyphenyl
2	nitro	aminoethyl	3 – methoxyphenyl
2	nitro	aminoethyl	4 - methoxyphenyl
2	nitro	aminoethyl	2, 3 – dimethoxyphenyl
2	nitro	aminoethyl	2, 4 – dimethoxyphenyl
2	nitro	aminoethyl	3, 4 – dimethoxyphenyl
2	nitro	aminoethyl	3, 5 – dimethoxyphenyl
2	nitro	aminoethyl	3, 4 – (methylenedioxy) phenyl
2	nitro	aminoethyl	3, 4 – (ethylenedioxy) phenyl
2	nitro	aminoethyl	2 – hydroxyphenyl
2	nitro	aminoethyl	3 – hydroxyphenyl
2	nitro	aminoethyl	4 hydroxyphenyl
2	nitro	aminoethyl	2 – aminophenyl
2	nitro	aminoethyl	3 – aminophenyl
2	nitro	aminoethyl	4 – aminophenyl
2	nitro	aminoethyl	2 – ( methylamino ) phenyl
2	nitro	aminoethyl	3 – ( methylamino ) phenyl
2	nitro	aminoethyl	4 – ( methylamino ) phenyl
2	nitro	aminoethyl	2 - (dimethylamino) phenyl
2	nitro	aminoethyl	3 - (dimethylamino) phenyl
2	nitro	aminoethyl	4 - (dimethylamino) phenyl
2	nitro	aminoethyl	2 - carboxyphenyl
2	nitro	aminoethyl	3 - carboxyphenyl
2	nitro	aminoethyl	4 - carboxyphenyl
2 2 2 2 2	nitro	aminoethyl	2 - ( methylcarbamoyl ) phenyl
2	nitro	aminoethyl	3 - ( methylcarbamoyl ) phenyl
2	nitro	aminoethyl	4 - ( methylcarbamoyl ) phenyl
2	nitro	aminoethyl	2 - ( methoxycarbonyl ) phenyl
2	nitro	aminoethyl	3 - ( methoxycarbonyl ) phenyl
2	nitro	aminoethyl	4 – ( methoxycarbonyl ) phenyl
.2	nitro	aminoethyl	2 - ( ethoxycarbonyl ) phenyl
2	nitro	aminoethyl	3 - ( ethoxycarbonyl ) phenyl
2	nitro	aminoethyl	4 - ( ethoxycarbonyl ) phenyl
2	nitro	aminoethyl	2 - ( acetyloxy ) phenyl
2	nitro	aminoethyl	3 - ( acetyloxy ) phenyl
2	nitro	aminoethyl	4 – ( acetyloxy ) phenyl
2	nitro	aminoethyl	2 – ( propionyloxy ) phenyl
2	nitro	aminoethyl	3 – ( propionyloxy ) phenyl
2	nitro	aminoethyl	4 – ( propionyloxy ) phenyl
2	nitro	aminoethyl	2 - trifluoromethylphenyl
2	nitro	aminoethyl	3 - trifluoromethylphenyl
2 2 2 2 2 2 2 2 2	nitro	aminoethyl	4 - trifluoromethylphenyl
2	nitro	aminoethyl	2 – thienyl
2	nitro	aminoethyl	3 – thienyl
2	nitro	aminoethyl	2 – furyl
	nitro	aminoethyl	3 – furyl
2	nitro	aminoethyl	2 – pyridyl
2	nitro	aminoethyl	3 – pyridyl
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### Table 2(continuation 29)

m	R'	R³	Z
2	nitro	aminoethyl	4 – pyridyl
1	nitro	formyl	phenyl
1	nitro	formyl	2 - fluorophenyl
1	nitro	formyl	3 – fluorophenyl
1	nitro	formyl	4 – fluorophenyl
1	nitro	formyl	2, 4 - difluorophenyl
1	nitro	formyl	2, 5 - difluorophenyl
1	nitro	formyl	2, 6 - difluorophenyl
1	nitro	formyl	3, 4 - difluorophenyl
1	nitro	formyl	3, 5 - difluorophenyl
1	nitro	formyl	2 – chlorophenyl
1	nitro	formyl	3 – chlorophenyl
1	nitro	formyl	4 – chlorophenyl
1	nitro	formyl	2, 4 - dichlorophenyl
1	nitro	formyl	3, 4 - dichlorophenyl
1	nitro	formyl	2 – bromophenyl
1	nitro	formyl	3 – bromophenyl
1	nitro	formyl	4 – bromophenyl
1	nitro	formyl	2 - methylphenyl
1	nitro	formyl	3 – methylphenyl
1	nitro	formyl	4 – methylphenyl
1	nitro	formyl	2 - methoxyphenyl
1	nitro	formyl	3 - methoxyphenyl
1	nitro	formyl	4 - methoxyphenyl
1	nitro	formyl	2, 3 - dimethoxyphenyl
1	nitro	formyl	2, 4 - dimethoxyphenyl
1	nitro	formyl	3, 4 – dimethoxyphenyl
	nitro	formyl	3, 5 - dimethoxyphenyl
1	nitro	formyl	3, 4 – ( methylenedioxy ) phenyl
1	nitro	formyl	3, 4 – (ethylenedioxy) phenyl
1	nitro	formyl	2 – hydroxyphenyl
1	nitro	formyl	3 – hydroxyphenyl
1	nitro	formyl	. 4 – hydroxyphenyl
1	nitro	formyl	2 - aminophenyl
1	nitro	formyl	3 – aminophenyl
1	nitro	formyl	4 – aminophenyl
1	nitro	formyl	2 - ( methylamino ) phenyl
1	nitro	formyl	3 - ( methylamino ) phenyl
1	nitro	formyl	4 – ( methylamino ) phenyl
1	nitro	formyl	2 - ( dimethylamino ) phenyl
1_1_	nitro	formyl	3 - ( dimethylamino ) phenyl
1	nitro	formyl	4 - ( dimethylamino ) phenyl
1	nitro	formyl	2 – carboxyphenyl
1	nitro	formyl	3 – carboxyphenyl
l	nitro	formyl	4 – carboxyphenyl
1	nitro	formyl	2 – ( methylcarbamoyl ) phenyl
1	nitro	formyl	3 - ( methylcarbamoyl ) phenyl
1	nitro	formyl	4 - ( methylcarbamoyl ) phenyl

### Table 2(continuation 30)

m	RI	R <sup>3</sup>	Z
1	nitro	formyl	2 - ( methoxycarbonyl ) phenyl
1	pitro	formyl	3 - ( methoxycarbonyl ) phenyl
1	nitro	formyl	4 - ( methoxycarbonyl ) phenyl
1	nitro	formyl	2 - ( ethoxycarbonyl ) phenyl
1	nitro	formyl	3 - ( ethoxycarbonyl ) phenyl
i	nitro	formyl	4-( ethoxycarbonyl ) phenyl
i	nitro	formyl	2 - (acetyloxy) phenyl
l i	nitro	formyl	3 - (acetyloxy) phenyl
1	nitro	formyl	4 - (acetyloxy) phenyl
1	nitro	formyl	2 – ( propionyloxy ) phenyl
1	nitro	formyl	3 – ( propionyloxy ) phenyl
1	nitro	formyl	4 – ( propionyloxy ) phenyl
1	nitro	formyl	2 - trifluoromethylphenyl
1	nitro	formyl	3 - trifluoromethylphenyl
1	nitro	formyl	4 - trifluoromethylphenyl
1	nitro	formyl	2 – thicnyl
1	nitro	formyl	3 – thienyl
1	nitro	formyl	2 – furyl
1	nitro	formyl	3 – furyl
1	nitro	formyl	2 – pyridyl
1	nitro	formyl	3 – pyridyl
1	nitro	formyl	4 – pyridyl
2	nitro	formyl	phenyl
2	nitro	formyl	2 – fluorophenyl
2	nitro	formyl	3 – fluorophenyl
. 2	nitro	formyl	4 – fluorophenyl
2	nitro	formyl	2, 4 – difluorophenyl
2	nitro	formyl	2, 5 – diffuorophenyl
2	nitro	formyl	2, 6 – difluorophenyl 3, 4 – difluorophenyl
2	nitro	formyl	3, 5 – difluorophenyl
2	nitro	formyl	2 – chlorophenyl
2	nitro nitro	formyl	3 – chlorophenyl
2	nitro	formyl	4 – chlorophenyl
2	nitro	formyl	2, 4 – dichlorophenyl
2	nitro	formyl	3, 4 – dichlorophenyl
2	nitro	formyl	2 – bromophenyl
2	nitro	formyl	3 - bromophenyl
7	nitro	formyl	4 – bromophenyl
2	nitro	formyl	2 - methylphenyl
2 2 2 2	nitro	formyl	3 - methylphenyl
2	nitro	formyl	4 - methylphenyl
	nitro	formyl	2 - methoxyphenyl
2	nitro	formyl	3 - methoxyphenyl
2	nitro	formyl	4 – methoxyphenyl
2	nitro	formyl	2, 3 - dimethoxyphenyl
2	nitro	formyl	2, 4 - dimethoxyphenyl
2	nitro	formyl	3, 4 – dimethoxyphenyl
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# Table 2(continuation 31)

1	m	R <sup>1</sup>	R <sup>3</sup>	Z
		nitro	formyl	3, 5 - dimethoxyphenyl
	2	nitro	formyl	3, 4 – ( methylenedioxy ) phenyl
	2	nitro		
			formyl	3, 4 – (ethylenedioxy) phenyl
	2	nitro	formyl	2 – hydroxyphenyl
	2	nitro	formyl	3 – hydroxyphenyl
	2	nitro	formyl	4 – hydroxyphenyl
	2	nitro	formyl	2 – aminophenyl
	2	nitro	formyl	3 – aminophenyl
	2	nitro	formyl	4 – aminophenyl
	2	nitro	formyl	2 - ( methylamino ) phenyl
	2	nitro	formyl	3 – ( methylamino ) phenyl
	2	nitro	formyl	4 – ( methylamino ) phenyl
	2	nitro	formyl	2 – ( dimethylamino ) phenyl
	2	nitro	formyl	3 – ( dimethylamino ) phenyl
	2	nitro	formyl	4 – ( dimethylamino ) phenyl
	2	nitro	formyl	2 – carboxyphenyl
	2	nitro	formyl	3 – carboxyphenyl
	2	nitro	formyl	4 – carboxyphenyl
ļ	2	nitro	formyl	2 - ( methylcarbamoyl ) phenyl
	2	nitro	formyl	3 - ( methylcarbamoyl ) phenyl
	2	nitro	formyl	4 – ( methylcarbamoyi ) phenyl
ļ	2	nitro	formyl	2 - ( methoxycarbonyl ) phenyl
ļ	2	nitro	formyl	3 - ( methoxycarbonyl ) phenyl
ļ	2	nitro	formyl	4 – ( methoxycarbonyl ) phenyl
ļ	2	nitro	formyl	2 - ( ethoxycarbonyl ) phenyl
	2	nitro	formyl	3 – (ethoxycarbonyl) phenyl
J	2	nitro	formyl	4 - ( ethoxycarbonyl ) phenyl
	2	nitro	formyl	2 – ( acetyloxy ) phenyl
	2 2 2	nitro	formyl	3 – ( acetyloxy ) phenyl
	2	nitro	formyl	4-(acetyloxy) phenyl
		nitro	formyl	2 – ( propionyloxy ) phenyl
	2	nitro	formyl	3 – ( propionyloxy ) phenyl
ļ	2	nitro	formyl	4 - ( propionyloxy ) phenyl
	2	nitro	formyl	2 - trifluoromethylphenyl
ļ	2	nitro	formyl	3 - trifluoromethylphenyl
	2	nitro	formyl	4 - trifluoromethylphenyl
	2	nitro	formyl	2 - thienyl
	2	nitro	formyl	3 – thienyl
	2	nitro	formyl	2 – furyl
1	2	nitro	formyl	3 – furyl
ļ	2	nitro	formyl	2 – pyridyl
į	2	nitro	formyl	3 – pyridyl
ļ	2	nitro	formyl	4 – pyridyl
	1	nitro	acetyl	phenyl
[	1	nitro	acetyl	2 – fluorophenyl
	1	nitro	acetyl	3 – fluorophenyl
	1	nitro	acetyl	4 – fluorophenyl
	1	nitro	acetyl	2, 4 – difluorophenyl
`				

Table 2(continuation 32)

m	R <sup>1</sup>	R <sup>3</sup>	Z
1	nitro	acetyl	2, 5 – difluorophenyl
1	nitro	acetyl	2, 6 - difluorophenyl
1	nitro	acetyl	3, 4 - difluorophenyl
1	nitro	acetyl	3, 5 - difluorophenyl
1	nitro	acetyl	2 - chlorophenyl
1	nitro	acetyl	3 - chlorophenyl
1	nitro	acetyl	4 - chlorophenyl
1	nitro	acetyl	2, 4 - dichlorophenyl
1	nitro	acetyl	3, 4 - dichlorophenyl
1	nitro	acetyl	2 - bromophenyl
1	nitro	acetyl	3 - bromophenyl
1	nitro	acetyl	4 - bromophenyl .
1	nitro	acetyl	2 – methylphenyl
1	nitro	acetyl	3 - methylphenyl
1	nitro	acetyl	4 - methylphenyl
1	nitro	acetyl	2 - methoxyphenyl
1	nitro	acetyl	3 – methoxyphenyl
1	nitro	acetyl	4 – methoxyphenyl
1	nitro	acetyl	2, 3 - dimethoxyphenyl
1	nitro	acetyl	2, 4 - dimethoxyphenyl
1	nitro	acetyl	3, 4 - dimethoxyphenyl
1	nitro	acetyl	3, 5 - dimethoxyphenyl
1	nitro_	acetyl	3, 4 - ( methylenedioxy ) phenyl
1	nitro	acetyl	3, 4 - ( ethylenedioxy ) phenyl
1	nitro	acetyl	2 – hydroxyphenyl
1	nitro	acetyl	3 – hydroxyphenyl
1	nitro	acetyl	4 – hydroxyphenyl
1	nitro	acetyl	2 – aminophenyl
1	nitro	acetyl	3 - aminophenyl
1	nitro	acetyl	4 - aminophenyl
1	nitro	acetyl	2 - ( methylamino ) phenyl
1	nitro	acetyl	3 - ( methylamino ) phenyl
1	nitro	acetyl	4 - ( methylamino ) phenyl
1	nitro_	acetyl	2 - (dimethylamino) phenyl
	nitro nitro	acetyl	3 - (dimethylamino) phenyl
1		acetyl	4 - ( dimethylamino ) phenyl
1	nitro nitro	acetyl	2 - carboxyphenyl
1		acetyl	3 - carboxyphenyl
1	nitro nitro	acetyl acetyl	4 – carboxyphenyl 2 – ( methylcarbamoyl ) phenyl
1		acetyl	3 – (methylcarbamoyl) phenyl
1	nitro nitro	acetyl	4 – (methylcarbamoyl) phenyl
1	nitro	acetyl	2 - (methoxycarbonyl) phenyl
1		acetyl	
1	nitro		3 - (methoxycarbonyl) phenyl 4 - (methoxycarbonyl) phenyl
1	nitro	acetyl	2 (athorycorbonyl) phenyl
	nitro	acetyl	2 – (ethoxycarbonyl) phenyl
1	nitro	acetyl	3 – (ethoxycarbonyl) phenyl
1_1_	nitro	acetyl	4 - ( cthoxycarbonyl ) phenyl

# Table 2(continuation 33)

m   R¹   R³   Z     1   aitro   acetyl   2 - (acetyloxy) phenyl     1   aitro   acetyl   3 - (acetyloxy) phenyl     1   aitro   acetyl   3 - (acetyloxy) phenyl     1   aitro   acetyl   3 - (propionyloxy) phenyl     1   aitro   acetyl   3 - (propionyloxy) phenyl     1   nitro   acetyl   3 - (propionyloxy) phenyl     1   nitro   acetyl   3 - (propionyloxy) phenyl     1   nitro   acetyl   3 - trifluoromethylphenyl     1   nitro   acetyl   3 - trimyl     1   nitro   acetyl   3 - funyl     1   nitro   acetyl   3 - funyl     1   nitro   acetyl   3 - pyridyl     1   nitro   acetyl   3 - pyridyl     1   nitro   acetyl   3 - pyridyl     2   nitro   acetyl   3 - pyridyl     2   nitro   acetyl   3 - fluorophenyl     2   nitro   acetyl   3 - fullorophenyl     2   nitro   acetyl   3 - difluorophenyl     3   2   nitro   acetyl   3 - difluorophenyl     4   acetyl   4 - methylphenyl				140	10 2(00mmaation 33)
1   nitro   acetyl   3 - (acetyloxy) phenyl   1   nitro   acetyl   3 - (acetyloxy) phenyl   1   nitro   acetyl   3 - (acetyloxy) phenyl   1   nitro   acetyl   3 - (projonyloxy) phenyl   1   nitro   acetyl   3 - (projonyloxy) phenyl   1   nitro   acetyl   3 - (projonyloxy) phenyl   1   nitro   acetyl   3 - trifluoromethylphenyl   1   nitro   acetyl   3 - thienyl   1   nitro   acetyl   3 - pyridyl   1   nitro   acetyl   3 - pyridyl   1   nitro   acetyl   4 - pyridyl   2   nitro   acetyl   4 - pyridyl   2   nitro   acetyl   2 - fluorophenyl   2   nitro   acetyl   3 - fluorophenyl   3 - fluorop		m	R¹	R <sup>3</sup>	Z
1	5	1	nitro	acetyl	2 – ( acetyloxy ) phenyl
1		1			
1					
1					2 - (propionyloxy) phenyl
1   nitro   acetyl   4 - (propionyloxy) phenyl   1   nitro   acetyl   2 - trifluoromethylphenyl   1   nitro   acetyl   3 - trifluoromethylphenyl   1   nitro   acetyl   4 - trifluoromethylphenyl   1   nitro   acetyl   2 - thienyl   1   nitro   acetyl   2 - thienyl   1   nitro   acetyl   2 - thienyl   1   nitro   acetyl   2 - pyridyl   1   nitro   acetyl   2 - pyridyl   1   nitro   acetyl   3 - pyridyl   1   nitro   acetyl   3 - pyridyl   1   nitro   acetyl   3 - pyridyl   2   nitro   acetyl   4 - pyridyl   2   nitro   acetyl   4 - pyridyl   2   nitro   acetyl   3 - fluorophenyl   2   nitro   acetyl   4 - fluorophenyl   2   nitro   acetyl   2 - faifluorophenyl   2   nitro   acetyl   2 - difluorophenyl   2   nitro   acetyl   2 - difluorophenyl   2   nitro   acetyl   3 - difluorophenyl   2   nitro   acetyl   3 - chlorophenyl   2   nitro   acetyl   3 - bnomophenyl   2   nitro   acetyl   3 - methylphenyl   2   nitro   acetyl   3 - methylphenyl   2   nitro   acetyl   4 - methylphenyl   2   nitro   acetyl   3 - methoxyphenyl   2   nitro   acetyl   3 - methoxyphenyl   2   nitro   acetyl   3 - methoxyphenyl   3 - methylphenyl   3 -	40				
1	10				
1					
1					
1					
1	15				
1   nitro   acetyl   2 - furyl     1   nitro   acetyl   3 - furyl     1   nitro   acetyl   2 - pyridyl     1   nitro   acetyl   3 - pyridyl     1   nitro   acetyl   3 - pyridyl     1   nitro   acetyl   4 - pyridyl     2   nitro   acetyl   2 - fluorophenyl     2   nitro   acetyl   3 - fluorophenyl     2   nitro   acetyl   3 - fluorophenyl     2   nitro   acetyl   2 - difluorophenyl     2   nitro   acetyl   2 - difluorophenyl     2   nitro   acetyl   2 - difluorophenyl     2   nitro   acetyl   3 - chlorophenyl     2   nitro   acetyl   3 - chlorophenyl     2   nitro   acetyl   3 - chlorophenyl     2   nitro   acetyl   3 - difluorophenyl     2   nitro   acetyl   3 - bromophenyl     2   nitro   acetyl   3 - bromophenyl     2   nitro   acetyl   3 - methylphenyl     2   nitro   acetyl   3 - methylphenyl     2   nitro   acetyl   3 - methoxyphenyl     2   nitro   acetyl   3 - methoxyphenyl     2   nitro   acetyl   3 - dimethoxyphenyl     3   - dimethoxyphenyl     4   Dimensional					
1					
1					
1					
1	20				
2   nitro   acetyl   2 - fluorophenyl   2   nitro   acetyl   3 - fluorophenyl   2   nitro   acetyl   3 - fluorophenyl   2   nitro   acetyl   4 - fluorophenyl   2   nitro   acetyl   2, 4 - difluorophenyl   2   nitro   acetyl   2, 5 - difluorophenyl   2   nitro   acetyl   2, 6 - difluorophenyl   2   nitro   acetyl   3, 4 - difluorophenyl   2   nitro   acetyl   3, 5 - difluorophenyl   2   nitro   acetyl   3, 5 - difluorophenyl   2   nitro   acetyl   3 - chlorophenyl   2   nitro   acetyl   3 - chlorophenyl   2   nitro   acetyl   3 - chlorophenyl   2   nitro   acetyl   4 - chlorophenyl   2   nitro   acetyl   3, 4 - dichlorophenyl   2   nitro   acetyl   3, 4 - dichlorophenyl   2   nitro   acetyl   3, 4 - dichlorophenyl   2   nitro   acetyl   3 - bromophenyl   2   nitro   acetyl   3 - bromophenyl   2   nitro   acetyl   4 - bromophenyl   2   nitro   acetyl   4 - bromophenyl   2   nitro   acetyl   3 - methylphenyl   2   nitro   acetyl   3 - methylphenyl   2   nitro   acetyl   3 - methylphenyl   2   nitro   acetyl   3 - methoxyphenyl   2   nitro   acetyl   3 - methoxyphenyl   2   nitro   acetyl   3 - methoxyphenyl   2   nitro   acetyl   3 - dimethoxyphenyl   3					
2					
2					
2					
2	25				
2					
2		2	nitro	acetyl	· 2, 5 - difluorophenyl
2			nitro	acetyl	2, 6 - difluorophenyl
2   nitro   acetyl   3,5 - difluorophenyl	30	2	nitro	acetyl	
2   nitro   acetyl   3 - chlorophenyl   2   nitro   acetyl   4 - chlorophenyl   2   nitro   acetyl   2, 4 - dichlorophenyl   2   nitro   acetyl   3, 4 - dichlorophenyl   2   nitro   acetyl   3 - bromophenyl   2   nitro   acetyl   3 - bromophenyl   2   nitro   acetyl   4 - bromophenyl   2   nitro   acetyl   3 - methylphenyl   2   nitro   acetyl   3 - methylphenyl   2   nitro   acetyl   4 - methylphenyl   2   nitro   acetyl   4 - methylphenyl   2   nitro   acetyl   3 - methoxyphenyl   2   nitro   acetyl   3 - methoxyphenyl   2   nitro   acetyl   3 - methoxyphenyl   2   nitro   acetyl   4 - methoxyphenyl   2   nitro   acetyl   2, 3 - dimethoxyphenyl   2   nitro   acetyl   2, 4 - dimethoxyphenyl   2   nitro   acetyl   3, 4 - dimethoxyphenyl   2   nitro   acetyl   3, 4 - dimethoxyphenyl   2   nitro   acetyl   3, 4 - (methylenedioxy ) phenyl   2   nitro   acetyl   3, 4 - (methylenedioxy ) phenyl   2   nitro   acetyl   3, 4 - (ethylenedioxy ) phenyl   2   nitro   acetyl   3 - hydroxyphenyl   3   nitro   acetyl   3 - hydroxyphenyl   3   nitro   acetyl   3 - hydroxyphenyl   3   nitro   acetyl   4   hydroxyphenyl   4   hydroxyphenyl   3   nitro   acetyl   4   hydroxyphenyl   4   hydroxyphenyl   3   nitro   acetyl   4   hydroxyphenyl   3   hydroxyphenyl   3   nitro   acetyl   4   hydroxyphenyl			nitro	acetyl	
2			nitro		
2				acetyl	
2 nitro acetyl 3, 4 - dichlorophenyl 2 nitro acetyl 2 - bromophenyl 2 nitro acetyl 3 - bromophenyl 2 nitro acetyl 4 - bromophenyl 2 nitro acetyl 3 - methylphenyl 2 nitro acetyl 3 - methylphenyl 2 nitro acetyl 4 - methylphenyl 2 nitro acetyl 3 - methoxyphenyl 2 nitro acetyl 3 - methoxyphenyl 2 nitro acetyl 3 - methoxyphenyl 45 45 40 40 40 40 40 40 40 40 40 40 40 40 40					
2	35				
2					
2		2			
2 nitro acetyl 2-methylphenyl 2 nitro acetyl 3-methylphenyl 2 nitro acetyl 4-methylphenyl 2 nitro acetyl 2-methoxyphenyl 2 nitro acetyl 3-methoxyphenyl 45 2 nitro acetyl 4-methoxyphenyl 2 nitro acetyl 4-methoxyphenyl 2 nitro acetyl 2, 3-dimethoxyphenyl 2 nitro acetyl 2, 4-dimethoxyphenyl 2 nitro acetyl 3, 4-dimethoxyphenyl 2 nitro acetyl 3, 5-dimethoxyphenyl 2 nitro acetyl 3, 4-(methylenedioxy) phenyl 2 nitro acetyl 3, 4-(ethylenedioxy) phenyl 2 nitro acetyl 3, 4-(ethylenedioxy) phenyl 2 nitro acetyl 3-hydroxyphenyl 2 nitro acetyl 3-hydroxyphenyl					
2 nitro acetyl 3-methylphenyl 2 nitro acetyl 4-methylphenyl 2 nitro acetyl 2-methoxyphenyl 2 nitro acetyl 3-methoxyphenyl 45 2 nitro acetyl 4-methoxyphenyl 2 nitro acetyl 2, 3-dimethoxyphenyl 2 nitro acetyl 2, 4-dimethoxyphenyl 2 nitro acetyl 3, 4-dimethoxyphenyl 2 nitro acetyl 3, 5-dimethoxyphenyl 2 nitro acetyl 3, 4-(methylenedioxy) phenyl 2 nitro acetyl 3, 4-(ethylenedioxy) phenyl 2 nitro acetyl 3, 4-(ethylenedioxy) phenyl 2 nitro acetyl 3-hydroxyphenyl 2 nitro acetyl 3-hydroxyphenyl					
2 nitro acetyl 4-methylphenyl 2 nitro acetyl 2-methoxyphenyl 2 nitro acetyl 3-methoxyphenyl 45 2 nitro acetyl 4-methoxyphenyl 2 nitro acetyl 2, 3-dimethoxyphenyl 2 nitro acetyl 2, 4-dimethoxyphenyl 2 nitro acetyl 3, 4-dimethoxyphenyl 2 nitro acetyl 3, 5-dimethoxyphenyl 2 nitro acetyl 3, 4-(methylenedioxy) phenyl 2 nitro acetyl 3, 4-(ethylenedioxy) phenyl 2 nitro acetyl 3, 4-(ethylenedioxy) phenyl 2 nitro acetyl 3-hydroxyphenyl 2 nitro acetyl 3-hydroxyphenyl	40				
2 nitro acetyl 2-methoxyphenyl 2 nitro acetyl 3-methoxyphenyl 2 nitro acetyl 4-methoxyphenyl 2 nitro acetyl 2, 3-dimethoxyphenyl 2 nitro acetyl 2, 4-dimethoxyphenyl 2 nitro acetyl 3, 4-dimethoxyphenyl 2 nitro acetyl 3, 5-dimethoxyphenyl 2 nitro acetyl 3, 4-(methylenedioxy) phenyl 2 nitro acetyl 3, 4-(ethylenedioxy) phenyl 2 nitro acetyl 3, 4-(ethylenedioxy) phenyl 2 nitro acetyl 2-hydroxyphenyl 2 nitro acetyl 3-hydroxyphenyl 3 nitro acetyl 4-hydroxyphenyl					
2 nitro acetyl 3 - methoxyphenyl 2 nitro acetyl 4 - methoxyphenyl 2 nitro acetyl 2, 3 - dimethoxyphenyl 2 nitro acetyl 3, 4 - dimethoxyphenyl 2 nitro acetyl 3, 5 - dimethoxyphenyl 2 nitro acetyl 3, 5 - dimethoxyphenyl 2 nitro acetyl 3, 4 - (methylenedioxy ) phenyl 2 nitro acetyl 3, 4 - (ethylenedioxy ) phenyl 2 nitro acetyl 3, 4 - (ethylenedioxy ) phenyl 2 nitro acetyl 3 - hydroxyphenyl 2 nitro acetyl 3 - hydroxyphenyl					
2 nitro acetyl 4 - methoxyphenyl 2 nitro acetyl 2, 3 - dimethoxyphenyl 2 nitro acetyl 2, 4 - dimethoxyphenyl 2 nitro acetyl 3, 4 - dimethoxyphenyl 2 nitro acetyl 3, 5 - dimethoxyphenyl 2 nitro acetyl 3, 4 - (methylenedioxy) phenyl 2 nitro acetyl 3, 4 - (ethylenedioxy) phenyl 2 nitro acetyl 3, 4 - (ethylenedioxy) phenyl 2 nitro acetyl 2 - hydroxyphenyl 2 nitro acetyl 3 - hydroxyphenyl					
2 nitro acetyl 2, 3 – dimethoxyphenyl 2 nitro acetyl 2, 4 – dimethoxyphenyl 2 nitro acetyl 3, 4 – dimethoxyphenyl 2 nitro acetyl 3, 5 – dimethoxyphenyl 2 nitro acetyl 3, 4 – (methylenedioxy) phenyl 2 nitro acetyl 3, 4 – (ethylenedioxy) phenyl 2 nitro acetyl 2 – hydroxyphenyl 2 nitro acetyl 3 – hydroxyphenyl 2 nitro acetyl 4 – hydroxyphenyl	45				
2 nitro acetyl 2, 4 – dimethoxyphenyl 2 nitro acetyl 3, 4 – dimethoxyphenyl 2 nitro acetyl 3, 5 – dimethoxyphenyl 2 nitro acetyl 3, 4 – (methylenedioxy) phenyl 2 nitro acetyl 3, 4 – (ethylenedioxy) phenyl 2 nitro acetyl 2 – hydroxyphenyl 2 nitro acetyl 3 – hydroxyphenyl 2 nitro acetyl 4 – hydroxyphenyl	45				
2 nitro acetyl 3, 4 – dimethoxyphenyl 2 nitro acetyl 3, 5 – dimethoxyphenyl 2 nitro acetyl 3, 4 – (methylenedioxy ) phenyl 2 nitro acetyl 3, 4 – (ethylenedioxy ) phenyl 2 nitro acetyl 2 – hydroxyphenyl 2 nitro acetyl 3 – hydroxyphenyl 2 nitro acetyl 4 – hydroxyphenyl					
2 nitro acetyl 3, 5 – dimethoxyphenyl 2 nitro acetyl 3, 4 – (methylenedioxy ) phenyl 2 nitro acetyl 3, 4 – (ethylenedioxy ) phenyl 2 nitro acetyl 2 – hydroxyphenyl 2 nitro acetyl 3 – hydroxyphenyl 2 nitro acetyl 4 – hydroxyphenyl	·				
2 nitro acetyl 3, 4 – (methylenedioxy) phenyl 2 nitro acetyl 3, 4 – (ethylenedioxy) phenyl 2 nitro acetyl 2 – hydroxyphenyl 2 nitro acetyl 3 – hydroxyphenyl 3 nitro acetyl 4 – hydroxyphenyl					
2 nitro acetyl 3, 4 – (ethylenedioxy ) phenyl 2 nitro acetyl 2 – hydroxyphenyl 2 nitro acetyl 3 – hydroxyphenyl 2 nitro acetyl 4 – hydroxyphenyl	50				
2 nitro acetyl 2 – hydroxyphenyl 2 nitro acetyl 3 – hydroxyphenyl 2 nitro acetyl 4 – hydroxyphenyl					
2 nitro acetyl 3 – hydroxyphenyl					
2 pitro acetyl 4 – hydroxyohenyl					
55 2 nitro acetyl 4 – hydroxyphenyl					
	55		nitro	acetyi	4 - nydroxyphenyl

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Table 2(continuation 34)

				(**************************************
ſ	m	R¹	R³	Z
Ī	2	nitro	acetyl	2 – aminophenyl
Ī	2	nitro	acetyl	3 - aminophenyl
<u> </u>	2	nitro	acetyl	4 – aminophenyl
, i	2	nitro	acetyl	2 - ( methylamino ) phenyl
·	2	nitro	acetyl	3 - ( methylamino ) phenyl
	2	nitro	acetyl	4 - ( methylamino ) phenyl
ŀ	2	nitro	acetyl	2 - (dimethylamino) phenyl
ŀ	2	nitro	acetyl	3 – (dimethylamino) phenyl
ŀ	2	nitro	acetyl	4 – (dimethylamino) phenyl
ŀ	2	nitro	acetyl	2 - carboxyphenyl
t	2	nitro	acetyl	3 – carboxyphenyl
i i	2	nitro	acetyl	4 - carboxyphenyl
ŀ	2	nitro	acetyl	2 - ( methylcarbamoyl ) phenyl
t	$-\frac{2}{2}$	nitro	acetyl	3 - ( methylcarbamoyl ) phenyl
ŀ	2	nitro	acetyl	4 - ( methylcarbamoyl ) phenyl
Ì	2	nitro	acetyl	2 - ( methoxycarbonyl ) phenyl
ļ	2	nitro	acetyl	3 - ( methoxycarbonyl ) phenyl
Ì	2	nitro	acetyl	4 - ( methoxycarbonyl ) phenyl
	2	nitro	acetyl	2 – (ethoxycarbonyl) phenyl
	2	nitro	acetyl	3 – (ethoxycarbonyl) phenyl
1	2	nitro	acetyl	4 - ( ethoxycarbonyl ) phenyl
1	2	nitro	acetyl	2 - ( acetyloxy ) phenyl
	2	nitro	acetyl	3 - ( acetyloxy ) phenyl
	2	nitro	acetyl	4 - ( acetyloxy ) phenyl
	2 2 2	nitro	acetyl	2 – ( propionyloxy ) phenyl
		nitro	acetyl	3 – ( propionyloxy ) phenyl
	2	nitro	acetyl	4 – ( propionyloxy ) phenyl
	2	nitro	acetyl	2 - trifluoromethylphenyl
	2	nitro	acetyl	3 - trifluoromethylphenyl
	2	nitro	acetyl	4 - trifluoromethylphenyl
	2	nitro	acetyl	2 – thienyl
	2 2 2	nitro	acetyl	3 - thienyl
	2	nitro	acetyl	2 – furyl
	2	nitro	acetyl	3 – furyl
	2	nitro	acetyl	2 – pyridyl
	2	nitro	acetyl	3 – pyridyl
	2	nitro	acetyl	4 – pyridyl
	1	nitro	propionyl	phenyl
	1	nitro	propionyl	2 – fluorophenyl
	1	nitro	propionyl	3 – fluorophenyl
	1	nitro	propionyl	4 – fluorophenyl
	1	nitro	propionyl	2, 4 – difluorophenyl
	1	nitro	propionyl	2, 5 – difluorophenyl
	1	nitro	propionyl	2, 6 – difluorophenyl
	1	nitro	propionyl	3, 4 – difluorophenyl
	1	nitro	propionyl	3, 5 – difluorophenyl
	1	nitro	propionyl	2 - chlorophenyl

3 - chlorophenyl

propionyl

nitro -

# Table 2(continuation 35)

5	
10	
15	
20	
25	
30	
35	
40	
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m	R <sup>1</sup>	R³	2
1	nitro	propionyl	4 chlorophenyl
1	nitro	propionyl	2, 4 – dichlorophenyl
1	nitro	propionyl	3, 4 – dichlorophenyl
1	nitro	propionyl	2 - bromophenyl
1	nitro	propionyl	3 – bromophenyl
1	nitro	propionyl	4 – bromophenyl
1	nitro	propionyl	2 – methylphenyl
1	nitro	propionyl	3 - methylphenyl
1	nitro	propionyl	4 - methylphenyl
1	nitro	propionyl	2 - methoxyphenyl
1	nitro	propionyl	3 – methoxyphenyl
1	nitro	propionyl	4 – methoxyphenyl
1	nitro	propionyl	2, 3 – dimethoxyphenyl
1	nitro	ргоріопуі	2, 4 – dimethoxyphenyl
			3, 4 – dimethoxyphenyl
1	nítro nitro	propionyl propionyl	3, 5 – dimethoxyphenyl
1	nitro	propionyl	3, 4 – ( methylenedioxy ) phenyl
1	nitro	propionyl	3, 4 – ( methylenedioxy ) phenyl
1	nitro	propionyl	2 - hydroxyphenyl
	nitro	propionyl	3 - hydroxyphenyl
1	nitro	propionyl	4 - hydroxyphenyl
1	nitro	propionyl	2 – aminophenyl
1	nitro	propionyl	3 – aminophenyl
1	nitro	propionyl	4 – aminophenyl
1	nitro	propionyl	2 - ( methylamino ) phenyl
1	nitro	propionyl	3 - ( methylamino ) phenyl
ī	nitro	propionyl	4 - ( methylamino ) phenyl
1	nitro	propionyl	2 - ( dimethylamino ) phenyl
1	nitro	propionyl	3 - (dimethylamino) phenyl
1	nitro	propionyl	4 – ( dimethylamino ) phenyl
1	nitro	propionyl	2 – carboxyphenyl
1	nitro	propionyl	3 – carboxyphenyl
1	nitro	propionyl	4 – carboxyphenyl
1	nitro	propionyl	2 - ( methylcarbamoyl ) phenyl
1	nitro	propionyl	3 - ( methylcarbamoyl ) phenyl
1	nitro	propionyl	4 - ( methylcarbamoyl ) phenyl
1	nitro	propionyl	2 - ( methoxycarbonyi ) phenyl
1	nitro	propionyl	3 - ( methoxycarbonyl ) phenyl
1	nitro	propionyl	4 – ( methoxycarbonyl ) phenyl
1	nitro	propionyl	2 - ( ethoxycarbonyl ) phenyl
1	nitro	propionyl	3 - ( ethoxycarbonyl ) phenyl
1	nitro	propionyl	4 - ( ethoxycarbonyl ) phenyl
1	nitro	propionyl	2 - (acetyloxy) phenyl
1	nitro	propionyl	3 – ( acetyloxy ) phenyl
1	nitro	propionyl	4 – ( acetyloxy ) phenyl
1	nitro	propionyl	2 - ( propionyloxy ) phenyl
1	nitro	propionyl	3 – ( propionyloxy ) phenyl
1	nitro	propionyl	4 - (propionyloxy) phenyl

Table 2(continuation 36)

5	
10	
15	
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50	

	Table 2(continuation 50)					
m	R¹	R³	Z			
1	nitro	propionyl	2 - trifluoromethylphenyl			
1	nitro	propionyl	3 - trifluoromethylphenyl			
1	nitro	propionyl	4 - trifluoromethylphenyl			
1	nitro	propionyl	2 – thienyl			
1	nitro	propionyl	3 – thienyl			
1	nitro	propionyl	2 – furyl			
1	nitro	propionyl	3 – furyl			
1	nitro	propionyl	2 – pyridyl			
1	nitro	propionyl	3 – pyridyl			
i	nitro	propionyl	4 – pyridyl			
2	nitro	propionyl	phenyl			
2	nitro	propionyl	2 - fluorophenyl			
2	nitro	propionyl	3 – fluorophenyl			
2	nitro	propionyl	4 – fluorophenyl			
	nitro	propionyl	2, 4 – difluorophenyl			
2	nitro	propionyl	2, 5 - difluorophenyl			
2	nitro	propionyl	2, 6 – difluorophenyl			
2	nitro	propionyl	3, 4 - difluorophenyl			
2	nitro	propionyl	3, 5 - difluorophenyl			
2	nitro	propionyl	2 – chlorophenyl			
2	nitro	propionyl	3 – chlorophenyl			
2	nitro ·	propionyl	4 – chlorophenyl			
2	nitro	propionyl	2, 4 – dichlorophenyl			
2	nitro	propionyl	3, 4 - dichlorophenyl			
2 2 2 2	nitro	propionyl	2 - bromophenyl			
2	nitro	propionyl	3 - bromophenyl			
2	nitro	propionyl	4 – bromophenyi			
2	nitro	propionyl	2 – methylphenyl			
2	nitro	propionyl	3 – methylphenyl			
	nitro	propionyl	4 – methylphenyl			
2 2 2	nitro	propionyl	2 – methoxyphenyl			
2	nitro	propionyl	3 – methoxyphenyl			
2 2	nitro	propionyl	4 – methoxyphenyl			
	nitro	propionyl	2, 3 - dimethoxyphenyl			
2	nitro	propionyl	2, 4 - dimethoxyphenyl			
2	nitro	propionyl	3, 4 - dimethoxyphenyl			
2	nitro	propionyl	3, 5 - dimethoxyphenyl			
2	nitro	propionyl	3, 4 – ( methylenedioxy ) phenyl			
2	nitro	propionyl	3, 4 - (ethylenedioxy) phenyl			
2	nitro	propionyl	2 – hydroxyphenyl			
2 2 2 2 2 2	nitro	propionyl	3 – hydroxyphenyl			
2	nitro	propionyl	4 - hydroxyphenyl			
2	nitro	propionyl	2 – aminophenyl			
2	nitro	propionyl	3 – aminophenyl			
2	nitro	propionyl	4 – aminophenyl			
	nitro	propionyl	2 – ( methylamino ) phenyl			
2	nitro	propionyl	3 – ( methylamino ) phenyl			
2	nitro	propionyl	4 - ( methylamino ) phenyl			
· -						

# Table 2(continuation 37)

m	R¹	R³	Z
2	nitro	propionyl	2 – ( dimethylamino ) phenyl
2	nitro	propionyl	3 - (dimethylamino) phenyl
2	nitro	propionyl	4 - ( dimethylamino ) phenyl
2	nitro	propionyl	2 - carboxyphenyl
2	nitro	propionyl	3 - carboxyphenyl
2	nitro	propionyl	4 - carboxyphenyl
2	nitro	propionyl	2 - ( methylcarbamoyl ) phenyl
2	nitro	propionyl	3 - ( methylcarbamoyl ) phenyl
2	nitro	propionyl	4 - ( methylcarbamoyl ) phenyl
2	nitro	propionyl	2 - ( methoxycarbonyl ) phenyl
2	nitro	propionyl	3 - ( methoxycarbonyl ) phenyl
2	nitro	propionyl	4 - ( methoxycarbonyl ) phenyl
2	nitro	propionyl	2 - (ethoxycarbonyl) phenyl
2	nitro	propionyl	3 - (ethoxycarbonyl) phenyl
2	nitro	propionyl	4 – ( ethoxycarbonyl ) phenyl
2	nitro	propionyl	2 - (acetyloxy) phenyl
2	nitro	propionyl	3 - (acetyloxy) phenyl
2	nitro	propionyl	4 - (acetyloxy) phenyl
2	nitro	propionyl	2 - ( propionyloxy ) phenyl
2	nitro	propionyl	3 – ( propionyloxy ) phenyl
2	nitro	propionyl	4 – ( propionyloxy ) phenyl
2	nitro	propionyl	2 - trifluoromethylphenyl
2	nitro	propionyl	· 3 - trifluoromethylphenyl
2	nitro	propionyl	4 - trifluoromethylphenyl
2	nitro	propionyl	2 - thienyl
2	nitro	propionyl	3 – thienyl
2	nitro	propionyl	2 – furyl
2	nitro	propionyl	3 – furyl
2	nitro	propionyl	2 – pyridyl
2	nitro	propionyl	3 – pyridyl
2	nitro	propionyl	4 – pyridyl
1	nitro	ethoxycarbonyl	phenyl
1	nitro	ethoxycarbonyl	2 – fluorophenyl
1	nitro	ethoxycarbonyl	3 - fluorophenyl
1	nitro	ethoxycarbonyl	4 – fluorophenyl
1	nitro	ethoxycarbonyl	2, 4 – difluorophenyl
1	nitro	ethoxycarbonyl	2, 5 – difluorophenyl
1	nitro	ethoxycarbonyl	2, 6 – difluorophenyl
1	nitro	ethoxycarbonyl	3, 4 – difluorophenyl
1	nitro	ethoxycarbonyl	3, 5 – difluorophenyl
1	nitro	ethoxycarbonyl	2 - chlorophenyl
1	nitro	ethoxycarbonyl	3 - chlorophenyl
1	nitro	ethoxycarbonyl	4 – chlorophenyl
1	nitro	ethoxycarbonyl	2, 4 – dichlorophenyl
1	nitro	ethoxycarbonyl	3, 4 – dichlorophenyl
1	nitro	ethoxycarbonyl	2 – bromophenyl
1	nitro	ethoxycarbonyl	3 – bromophenyl
1	nitro	ethoxycarbonyl	4 – bromophenyl

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# Table 2(continuation 38)

			Table 2(continuan	OH 36)
	m	R <sup>1</sup>	R³	2
5	1	nitro	ethoxycarbonyl	2 – methylphenyl
	1	nitro	ethoxycarbonyl	3 - methylphenyl
	1	nitro	ethoxycarbonyl	4 - methylphenyl
	1	nitro	ethoxycarbonyl	2 - methoxyphenyl
	1	nitro	ethoxycarbonyl	3 – methoxyphenyl
10	1	nitro	ethoxycarbonyl	4 - methoxyphenyl
	1	nitro	ethoxycarbonyl	2, 3 - dimethoxyphenyl
	1	nitro	ethoxycarbonyl	2, 4 - dimethoxyphenyl
	1	nitro	ethoxycarbonyl	3, 4 - dimethoxyphenyl
15	1	nitro	ethoxycarbonyl	3, 5 - dimethoxyphenyl
.5	1	nitro	ethoxycarbonyl	3, 4 – ( methylenedioxy ) phenyl
	1	nitro	ethoxycarbonyl	3, 4 - (ethylenedioxy) phenyl
	1	nitro	ethoxycarbonyl	2 – hydroxyphenyl
	i	nitro	ethoxycarbonyl	3 – hydroxyphenyl
20	1	nitro	ethoxycarbonyl	4 – hydroxyphenyl
	1	nitro	ethoxycarbonyl	2 - aminophenyl
	1	nitro	ethoxycarbonyl	3 - aminophenyl
	1	nitro	ethoxycarbonyl	4 - aminophenyl
	1	nitro	ethoxycarbonyl	2 - ( methylamino ) phenyl
25	1	nitro	ethoxycarbonyl	3 - ( methylamino ) phenyl
	1	nitro	ethoxycarbonyl	4 – ( methylamino ) phenyl
	1	nitro	ethoxycarbonyl	2 - ( dimethylamino ) phenyl
ノ	1	nitro	ethoxycarbonyl	3 – ( dimethylamino ) phenyl
30	1	nitro	ethoxycarbonyl	4 – ( dimethylamino ) phenyl
30	1	nitro	ethoxycarbonyl	2 – carboxyphenyl
	1	nitro	ethoxycarbonyl	3 – carboxyphenyl
	1	nitro	ethoxycarbonyl	4 – carboxyphenyl
	1	nitro	ethoxycarbonyl	2 - ( methylcarbamoyl ) phenyl
35	1	nitro	ethoxycarbonyl	3 - ( methylcarbamoyl ) phenyl
	1	nitro	ethoxycarbonyl	4 - ( methylcarbamoyl ) phenyl
	1	nitro	ethoxycarbonyl	2 - ( methoxycarbonyl ) phenyl
	1	nitro	ethoxycarbonyl	3 - ( methoxycarbonyl ) phenyl
	1	nitro	ethoxycarbonyl	4 - ( methoxycarbonyl ) phenyl
40	1	nitro	ethoxycarbonyl	2 - (ethoxycarbonyl) phenyl
	1	nitro	ethoxycarbonyl	3 - (ethoxycarbonyl) phenyl
	1	nitro	ethoxycarbonyl	4 – (ethoxycarbonyl) phenyl
	1	nitro	ethoxycarbonyl	2 - (acetyloxy) phenyl
45	11	nitro	ethoxycarbonyl	3 - ( acetyloxy ) phenyl
43	11	nitro	ethoxycarbonyl	4 - ( acetyloxy ) phenyl
	1	nitro	ethoxycarbonyl	2 – ( propionyloxy ) phenyl
	1	nitro	ethoxycarbonyl	3 – ( propionyloxy ) phenyl
	1	nitro	ethoxycarbonyl	4 – (propionyloxy) phenyl
50	11	nitro	ethoxycarbonyl	2 - trifluoromethylphenyl
	11	nitro	ethoxycarbonyl	3 - trifluoromethylphenyl
	1	nitro	ethoxycarbonyl	4 - trifluoromethylphenyl
	1	nitro	ethoxycarbonyl	2 – thienyl
	1	nitro	ethoxycarbonyl	3 – thienyl

47

ethoxycarbonyl

2 – furyl

nitro

### Table 2(continuation 39)

				· · · · · · · · · · · · · · · · · · ·
	m	R1	R³	Z
5	1	nitro	ethoxycarbonyl	3 – furyl
	1	nitro	ethoxycarbonyl	2 – pyridyl
	1	nitro	ethoxycarbonyl	3 – pyridyl
	ī	nitro	ethoxycarbonyl	4 – pyridyl
10	2	nitro	ethoxycarbonyl	phenyl
10	2	nitro	ethoxycarbonyl	2 – fluorophenyl
	2	nitro	ethoxycarbonyl	3 – fluorophenyl
	2	nitro	ethoxycarbonyl	4 – fluorophenyl
	2	nitro	ethoxycarbonyl	2, 4 - difluorophenyl
15	2	nitro	ethoxycarbonyl	2, 5 – difluorophenyl
	2	nitro	ethoxycarbonyl	2, 6 - difluorophenyl
	2	nitro	ethoxycarbonyl	3, 4 – difluorophenyl
	2	nitro	ethoxycarbonyl	3, 5 - difluorophenyl
	2	pitro	ethoxycarbonyl	2 - chlorophenyl
20	2	nitro	ethoxycarbonyl	3 - chlorophenyl
	2	nitro	ethoxycarbonyl	4 – chlorophenyl
	2	nitro	ethoxycarbonyl	2, 4 - dichlorophenyl
	2	nitro	ethoxycarbonyl	3, 4 - dichlorophenyl
	2	nitro	ethoxycarbonyl	2 - bromophenyl
25	2	nitro	ethoxycarbonyl	3 - bromophenyl
	2	nitro	ethoxycarbonyl	4 - bromophenyl
	2	nitro	ethoxycarbonyl	2 - methylphenyl
	2	nitro	ethoxycarbonyl	3 – methylphenyl
30	2	nitro	ethoxycarbonyl	4 – methylphenyl
	2	nitro	ethoxycarbonyl	2 - methoxyphenyl
	2	nitro	ethoxycarbonyl	3 – methoxyphenyl
	2	nitro	ethoxycarbonyl	4 - methoxyphenyl
	2	nitro	ethoxycarbonyl	2, 3 – dimethoxyphenyl
35	2	nitro	ethox ycarbonyl	2, 4 - dimethoxyphenyl
	2	nitro	ethoxycarbonyl	3, 4 - dimethoxyphenyl
	2	nitro	ethoxycarbonyl	3, 5 – dimethoxyphenyl
	2	nitro	ethoxycarbonyl	3, 4 – ( methylenedioxy ) phenyl
	2	nitro	ethoxycarbonyl	3, 4 – (ethylenedioxy) phenyl
40	2	nitro	ethoxycarbonyl	2 – hydroxyphenyl
	2	nitro	ethoxycarbonyl	3 – hydroxyphenyl
	2	nitro	ethoxycarbonyl	4 – hydroxyphenyl
	2	nitro	ethoxycarbonyl	2 – aminophenyl
45	2	nitro	ethoxycarbonyl	3 – aminophenyl
45	2	nitro	ethoxycarbonyl	4 – aminophenyl
	2	nitro	ethoxycarbonyl	2 – ( methylamino ) phenyl
	2	nitro	ethoxycarbonyl	3 – (methylamino) phenyl
	2	nitro	ethoxycarbonyl	4 - (methylamino) phenyl
50	2	nitro	ethoxycarbonyl	2 - (dimethylamino) phenyl
	2	nitro	ethoxycarbonyl	3 - (dimethylamino) phenyl
	2	nitro	ethoxycarbonyl	4 - (dimethylamino) phenyl
	2	nitro	ethoxycarbonyl	2 – carboxyphenyl
	2	nitro	ethoxycarbonyl	3 – carboxyphenyl

48

4 - carboxyphenyl

ethoxycarbonyl

nitro

### Table 2(continuation 40)

m	R1	R³	Z
2	nitro	ethoxycarbonyl	2 - ( methylcarbamoyl ) phenyl
Ż	nitro	ethoxycarbonyl	3 - ( methylcarbamoyl ) phenyl
2	nitro	ethoxycarbonyl	4 – ( methylcarbamoyl ) phenyl
2	nitro	ethoxycarbonyl	2 - ( methoxycarbonyl ) phenyl
2	nitro	ethoxycarbonyl	3 – ( methoxycarbonyl ) phenyl
2	. nitro	ethoxycarbonyl	4 – ( methoxycarbonyl ) phenyl
2	nitro	ethoxycarbonyl	2 - (ethoxycarbonyl) phenyl
2	nitro	ethoxycarbonyl	3 - (ethoxycarbonyl) phenyl
2	nitro	ethoxycarbonyl	4 - ( ethoxycarbonyl ) phenyl
2	nitro	ethoxycarbonyl	2 - ( acetyloxy ) phenyl
2	nitro	ethoxycarbonyl	3 - ( acetyloxy ) phenyl
2	nitro	ethoxycarbonyl	4 – ( acetyloxy ) phenyl
2	nitro	ethoxycarbonyl	2 – (propionyloxy) phenyl
2	nitro	ethoxycarbonyl	3 – (propionyloxy) phenyl
2	nitro	ethoxycarbonyl	4 - ( propionyloxy ) phenyl
2	nitro	ethoxycarbonyl	2 - trifluoromethylphenyl
2	nitro	ethoxycarbonyl	3 - trifluoromethylphenyl
2	nitro	ethoxycarbonyl	4 - trifluoromethylphenyl
2	nitro	ethoxycarbonyl	2 – thienyl
2	nitro	ethoxycarbonyl	3 – thienyl .
2	nitro	ethoxycarbonyl	2 – furyl
2	nitro	ethoxycarbonyl	3 – furyl
2	nitro	ethoxycarbonyl	2 – pyridyl
2	nitro	ethoxycarbonyl	3 – pyridyl
2	nitro	ethoxycarbonyl	4 – pyridyl
1	nitro	H	2-methyl-1,3-dioxaindan-5-yl
1	nitro	H	2-ethyl-1,3-dioxaindan-5-yl
1	nitro	Н	2-propyl-1,3-dioxaindan-5-yl.
1	nitro	Н	2-butyl-1,3-dioxaindan-5-yl
1	nitro	Н	3,5-dimethyl-4-hydroxyphenyl
1	nitro	Н	3,5-di-tert-butyl-4-hydroxyphenyl
1	nitro	Н	3,5-dimethyl-4-methoxyphenyl
1	nitro	Н	4-hydroxy-3-methoxyphenyl
2	nitro	Н	2-methyl-1,3-dioxaindan-5-yl
2	nitro	Н	2-ethyl-1,3-dioxaindan-5-yl
2	nitro	Н	2-propyl-1,3-dioxaindan-5-yl
2	nitro	Н	2-butyl-1,3-dioxaindan-5-yl
2	nitro	Н	3,5-dimethyl-4-hydroxyphenyl
2	nitro	Н	3,5-di-tert-butyl-4-hydroxyphenyl
2	nitro	Н	3,5-dimethyl-4-methoxyphenyl
2	nitro	H	4-hydroxy-3-methoxyphenyl
1	nitro	methýl	2-methyl-1,3-dioxaindan-5-yl
1	nitro	methyl	2-ethyl-1,3-dioxaindan-5-yl
1	nitro	methyl	2-propyl-1,3-dioxaindan-5-yl
1	nitro	methyl	2-butyl-1,3-dioxaindan-5-yl
1	nitro	methyl	3,5-dimethyl-4-hydroxyphenyl
1	nitro	methyl	3,5-di-tert-butyl-4-hydroxyphenyl
1	nitro	methyl	3,5-dimethyl-4-methoxyphenyl

# Table 2(continuation 41)

m	R1	R <sup>3</sup>	Ζ .
1	nitro	methyl	4-hydroxy-3-methoxyphenyl
1	nitro	formyl	2-methyl-1,3-dioxaindan-5-yl
1	nitro	formyl	2-ethyl-1,3-dioxaindan-5-yl
1	nitro	formyl	2-propyl-1,3-dioxaindan-5-yl
1	nitro	formyl	2-butyl-1,3-dioxaindan-5-yl
1	nitro	formyl	3,5-dimethyl-4-hydroxyphenyl
1	nitro	formyl	3,5-di-tert-butyl-4-hydroxyphenyl
1	nitro	formyl	3,5-dimethyl-4-methoxyphenyl
1	nitro	Н	benzimidazol-5-yl
1	nitro	Н	1- methylbenzimidazol-5-yl
1	nitro	Н	1- ethylbenzimidazol-5-yl
1	nitro	Н	2-hydroxy-1- methylbenzimidazol-5-yl
1	nitro	Н	1- ethyl-2-hydroxy benzimidazol-5-yl
1	nitro	Н	2-methoxy-1- methylbenzimidazol-5-yl
1	nitro	Н	1- ethyl-2-methoxy benzimidazol-5-yl
1	nitro	Н	benzothiazole-5-yl
2	nitro	Н	benzimidazol-5-yl
2	nitro	H	1- methylbenzimidazol-5-yl
2	nitro	Н	1 - ethylbenzimidazol-5-yl
2	nitro	Н	2-hydroxy-1- methylbenzimidazol-5-yl
2	nitro	Н	1- ethyl-2-hydroxy benzimidazol-5-yl
2	nitro	Н	2-methoxy-1- methylbenzimidazol-5-yl
2	nitro	H	1- ethyl-2-methoxy benzimidazol-5-yl
2	nitro	H	benzothiazole-5-yl
1	pitro	methyl	benzimidazol-5-yl
1	nitro	methyl	1- methylbenzimidazol-5-yl
1	nitro	methyl	l - ethylbenzimidazol-5-yl
1	nitro	methyl	2-hydroxy-1- methylbenzimidazol-5-yl
1	nitro	methyl	1- ethyl-2-hydroxy benzimidazol-5-yl
1	nitro	methyl	2-methoxy-1- methylbenzimidazol-5-yl
1	nitro	methyl	1- ethyl-2-methoxy benzimidazol-5-yl
1	nitro	methyl	benzothiazole-5-yl
1	nitro	formyl	benzimidazol-5-yl
1	nitro	formyl	1- methylbenzimidazol-5-yl
1	nitro	formyl	2-hydroxy-1- methylbenzimidazol-5-yl
1	nitro	formyl	1- ethyl-2-hydroxy benzimidazol-5-yl
1	nitro	formyl	2-methoxy-1- methylbenzimidazol-5-yl
1	nitro	formyl	1- ethyl-2-methoxy benzimidazol-5-yl
1	nitro	formyl	benzothiazole-5-yl

Table 3

5

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Each substituent in the formula above is as follows:

R¹  $\mathbb{R}^3$ Z m H nitro phenyl 2 - fluorophenyl nitro H 1 Н 1 nitro 3 - fluorophenyl H 4 - fluorophenyl nitro Н 2, 4 - difluorophenyl 1 nitro H 2, 5 - difluorophenyl 1 nitro H 1 nitro 2, 6 - difluorophenyl Н 3, 4 - difluorophenyl nitro H nitro 3, 5 - difluorophenyl H 2 - chlorophenyl 1 nitro Н 3 - chlorophenyl nitro H 1 nitro 4 - chlorophenyl H 2, 4 - dichlorophenyl nitro 3, 4 - dichlorophenyl Н nitro H nitro 2 - bromophenyl 1 nitro Н 3 - bromophenyl Н 4 - bromophenyl nitro nitro H 2 - methylphenyl 1 H nitro 3 - methylphenyl Н ì nitro 4 - methylphenyl H 2 - methoxyphenyl nitro H 1 nitro 3 - methoxyphenyl H 4 - methoxyphenyl 1 nitro nitro H 2, 3 - dimethoxyphenyl 2, 4 - dimethoxyphenyl H nitro nitro Н 3, 4 - dimethoxyphenyl H 3, 5 - dimethoxyphenyl nitro 3, 4 - ( methylenedioxy ) phenyl nitro H H 3, 4 - (ethylenedioxy) phenyl 1 nitro nitro H 1 2 - hydroxyphenyl 1 nitro H 3 - hydroxyphenyl H nitro 4 - hydroxyphenyl H nitro 2 - aminophenyl H nitro 3 - aminophenyl

55

4 - aminophenyl

H

nitro

# Table 3(continuation 1)

m	R¹	R³	Z
	nitro	Н	2 - ( methylamino ) phenyl
1	nitro	Н	3 – ( methylamino ) phenyl
1	nitro	H	4 – ( methylamino ) phenyl
1	nitro	H	2 - ( dimethylamino ) phenyl
1	nitro	Н	3 - ( dimethylamino ) phenyl
1	nitro	Н	4 - ( dimethylamino ) phenyl
1	nitro	Н	2 carboxyphenyl
1	nitro	Н	3 - carboxyphenyl
1	nitro	Н	4 – carboxyphenyl
1	nitro	Н	2 - ( methylcarbamoyl ) phenyl
1	nitro	Н	3 - ( methylcarbamoyl ) phenyl
1	nitro	Н	4 - ( methylcarbamoyl ) phenyl
1	nitro	Н	2 - ( methoxycarbonyl ) phenyl
1	nitro	Н	3 - ( methoxycarbonyl ) phenyl
1	nitro	Н	4 - ( methoxycarbonyl ) phenyl
1	nitro	Н	2 - (ethoxycarbonyl) phenyl
1	nitro	Н	3 – (ethoxycarbonyl) phenyl
1	nitro	Н	4 - (ethoxycarbonyl) phenyl
1	nitro	H	2 – ( acetyloxy ) phenyl
1	nitro	Н	3 – ( acetyloxy ) phenyl
1	nitro	Н	4 – ( acetyloxy ) phenyl
1	nitro	Н	2 – ( propionyloxy ) phenyl
1	nitro	Н	3 – ( propionyloxy ) phenyl
1	nitro	Н	4 - ( propionyloxy ) phenyl
1	nitro	H	2 - trifluoromethylphenyl
1	nitro	Н	3 - trifluoromethylphenyl
1	nitro	Н	4 - trifluoromethylphenyl
1	nitro	H	2 – thienyl
1	nitro	Н	3 - thienyl
1	nitro	Н	2 – furyl
1	nitro	H	3 – furyl
1	nitro	H	2 – pyridyl
1	nitro	H	3 – pyridyl
1	nitro	H	4 – pyridyl
2	nitro	H	phenyl
2	nitro	H	2 – fluorophenyi
2	nitro	H	3 – fluorophenyl
2	nitro	H_	4 – fluorophenyi
2	nitro	H	2, 4 – difluorophenyl
2	nitro	H	2, 5 – difluorophenyl
2	nitro	H	2, 6 – difluorophenyl
2	nitro	H	3, 4 – difluorophenyl
2	nitro	H	3, 5 – difluorophenyl
2 2 2	nitro	H	2 - chlorophenyl
2	nitro	Н	3 – chlorophenyl
2	nitro	H	4 - chlorophenyl
2	nitro	H	2, 4 – dichlorophenyl
2	nitro	H	3, 4 – dichlorophenyl

# Table 3(continuation 2)

	m	R <sup>1</sup>	R <sup>3</sup>	2.
5	2	nitro	Н	2 – bromophenyl
	2	nitro	Н	3 - bromophenyl
	2	nitro	Н	4 – bromophenyl
	2	nitro	Н	2 – methylphenyl
10	2	nitro	Н	3 – methylphenyl
10	. 2	nitro	· H	4 - methylphenyl
	2	nitro	Н	2 - methoxyphenyl
	2	nitro	Н	3 – methoxyphenyl
	2	nitro	Н	4 - methoxyphenyl
15	2	nitro	Н	2, 3 - dimethoxyphenyl
	2	nitro	Н	2, 4 - dimethoxyphenyl
	2	nitro	Н	3, 4 - dimethoxyphenyl
	2	nitro	Н	3, 5 - dimethoxyphenyl
	2	nitro	Н	3, 4 - ( methylenedioxy ) phenyl
20	2	nitro	Н	3, 4 – ( ethylenedioxy ) phenyl
	2	nitro	Н	2 – hydroxyphenyl
	2	nitro	Н	3 – hydroxyphenyl
	2	nitro	Н	4 – hydroxyphenyl
25	2	nitro	Н	2 – aminophenyl
2.5	2	nitro	H	3 - aminophenyl
	2	nitro	H	4 – aminophenyl
	2	nitro	Н	2 - ( methylamino ) phenyl
	2	nitro	H	3 - ( methylamino ) phenyl
30	2	nitro	Н	4 - ( methylamino ) phenyl
	2	nitro	H	2 - ( dimethylamino ) phenyl
	2	nitro	Н	3 - (dimethylamino) phenyl
	2	nitro	H	4 - (dimethylamino) phenyl
	2	nitro	H	2 - carboxyphenyl
35	2	nitro	H	3 - carboxyphenyl
	2	nitro	H	4 – carboxyphenyl
	2	nitro	H	2 - (methylcarbamoyl) phenyl
	2	nitro	H	3 - ( methylcarbamoyl ) phenyl 4 - ( methylcarbamoyl ) phenyl
40	2	nitro	H	4 - ( methylcarbamoyl ) phenyl 2 - ( methoxycarbonyl ) phenyl
40	2	nitro	H	3 - ( methoxycarbonyl ) phenyl
	2	nitro	H	4 – ( methoxycarbonyl ) phenyl
	2	nitro	H	2 – (ethoxycarbonyl) phenyl
		nitro	H	3 - (ethoxycarbonyl) phenyl
45	2	nitro nitro	H	4 – (ethoxycarbonyl) phenyl
	2	nitro	H	2 - (acetyloxy) phenyl
	2		H	3 - (acetyloxy) phenyl
	2	nitro nitro	Н	4 - (acetyloxy) phenyl
	2		H	2 – ( propionyloxy ) phenyl
50	2	nitro	H	3 – (propionyloxy) phenyl
	2	nitro nitro	H	4 – ( propionyloxy ) phenyl
	2		H	2 - trifluoromethylphenyl
	2	nitro	H	3 - trifluoromethylphenyl
	<del> </del>	nitro	n .	A asiOn and ashalaharat

nitro

53

4 - trifluoromethylphenyl

#### Table 3(continuation 3)

			18	ible 3 (continuation 3)
_	m	R¹	·R³	Z
5	2	nitro	Н	2 – thienyl
	2	nitro	Н	3 – thienyl
	2	nitro	Н	2 – furyl
	2	nitro	Н	3 – furyl
10	2	nitro	н	2 – pyridyl
	2	nitro	Н	3 – pyridyl
ì	2	nitro	Н	4 – pyridyl
	1	fluoro	Н	phenyl
Ì	1	fluoro	Н	2 – fluorophenyl
15	1	fluoro	Н	3 – fluorophenyl
	1	fluoro	Н	4 - fluorophenyl
,	1	fluoro	Н	2, 4 - difluorophenyl
	1	fluoro	Н	2, 5 – difluorophenyl
20	1	fluoro	H	2, 6 – difluorophenyl
20	1	fluoro	Н	3, 4 - difluorophenyl
	1	fluoro	Н	3, 5 - difluorophenyl
	1	fluoro	Н	2 – chlorophenyl
	1	fluoro	Н	3 – chlorophenyl
25	1	fluoro	H	4 – chlorophenyl
	1	fluoro	H	2, 4 - dichlorophenyl
	1	fluoro	H	3, 4 - dichlorophenyl
	1	fluoro	Н	2 - bromophenyl
	1	fluoro	Н	3 - bromophenyl
30	11	fluoro	Н	4 – bromophenyl
	1	fluoro	Н	2 – methylphenyl
	1	fluoro	Н	3 – methylphenyl
	1	fluoro	H	4 – methylphenyl
05	1	fluoro	H	2 - methoxyphenyl
35	1	fluoro	H	3 - methoxyphenyl 4 - methoxyphenyl
	1	fluoro	Н	2, 3 – dimethoxyphenyl
	1	fluoro	Н	2, 4 - dimethoxyphenyl
	1	fluoro	H	3, 4 – dimethoxyphenyl
40	1	fluoro	H	3, 5 – dimethoxyphenyl
	1	fluoro	H	3, 4 – ( methylenedioxy ) phenyl
	<del>                                     </del>	fluoro	H	3, 4 - (ethylenedioxy) phenyl
	$\vdash_{i}$	fluoro	Н	2 – hydroxyphenyl
	1	fluoro	Н	3 – hydroxyphenyl
45	1	fluoro	Н	4 – hydroxyphenyl
	i	fluoro	Н	2 – aminophenyl
	1	fluoro	Н	3 – aminophenyl
	1	fluoro	Н	4 – aminophenyl
50	1	fluoro	H	2 - ( methylamino ) phenyl
50	1	fluoro	H	3 - ( methylamino ) phenyl
	l-i-	fluoro	H	4 - ( methylamino ) phenyl
	1	fluoro	H	2 – (dimethylamino) phenyl
	1	fluoro	Н	3 – (dimethylamino) phenyl
		1	1	

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4-( dimethylamino ) phenyl

Table 3(continuation 4)

		T	able 3(continuation 4)
m	R <sup>1</sup>	R <sup>3</sup>	Z
1	fluoro	Н	2 - carboxyphenyl
1	fluoro	Н	3 - carboxyphcnyl
1	fluoro	Н	4 - carboxyphenyl
1	fluoro	Н	2 - ( methylcarbamoyl ) phenyl
1	fluoro	Н	3 - ( methylcarbamoyl ) phenyl
1	fluoro	H	4 - ( methylcarbamoyl ) phenyl
1	fluoro	Н	2 - ( methoxycarbonyl ) phenyl
1	fluoro	Н	3 - ( methoxycarbonyl ) phenyl
1	fluoro	Н	4 - ( methoxycarbonyl ) phenyl
1	fluoro	Н	2 - (ethoxycarbonyl) phenyl
1	fluoro	Н	3 - (ethoxycarbonyl) phenyl
1	fluoro	Н	4 - (ethoxycarbonyl) phenyl
1	fluoro	Н	2 - ( acetyloxy ) phenyl
1	fluoro	Н	3 – ( acetyloxy ) phenyl
1	fluoro	Н	4 - ( acetyloxy ) phenyl
1	fluoro	H	2 – ( propionyloxy ) phenyl
1	fluoro	H	3 – ( propionyloxy ) phenyl
1	fluoro	Н	4 - ( propionyloxy ) phenyl
1	fluoro	H	2 - trifluoromethylphenyl
1	fluoro	Н	3 - trifluoromethylphenyl
1	fluoro	Н	4 - trifluoromethylphenyl
1	fluoro	Н	2 - thienyl
1	fluoro	H	3 – thienyl
1	fluoro	H	2 – furyl
1	fluoro	H	3 – furyl
1	fluoro	Н	2 – pyridyl
1	fluoro	H	3 – pyridyl
1	fluoro	Н	4 – pyridyl
1	chloro	H	phenyl
1	chloro	Н	2 – fluorophenyl
1	chloro	H	3 – fluorophenyl
1	chloro	H	4 – fluorophenyl
1	chloro	H	2, 4 – difluorophenyl
1	chloro	H	2, 5 – difluorophenyl 2, 6 – difluorophenyl
1 1	chloro chloro	H	
1	chloro	Н	3, 4 - difluorophenyl 3, 5 - difluorophenyl
1	chloro	H	2 – chlorophenyl
1	chloro	Н	3 – chlorophenyl
1	chloro	Н	4 – chlorophenyl
1	chloro	H	2, 4 – dichlorophenyl
1	chloro	H	3, 4 – dichlorophenyl
1	chloro	H	2 - bromophenyl
1	chloro	H	3 – bromophenyl
1-1	chloro	H	4 - bromophenyl
1-1-	chloro	H	2 – methylphenyl
1	chloro	Н	3 - methylphenyl
L1	CHIOTO	n_n_	i – methylpnenyl

4 - methylphenyl

chloro

H

Table 3(continuation 5)

			ı,a	iole 3 (continuation 3)
_	m	R'	R <sup>3</sup>	Z
5	1	chloro	Н	2 - methoxyphenyl
<b>†</b>	1	chloro	Н	3 - methoxyphenyl
	1	chloro	Н	4 - methoxyphenyl
	1	chloro	Н	2, 3 - dimethoxyphenyl
10	i	chloro	H	2, 4 - dimethoxyphenyl
"	<del>- i</del>	chloro	H	3, 4 - dimethoxyphenyl
	$\frac{1}{1}$	chloro	H	3, 5 - dimethoxyphenyl
	1	chloro	H	3, 4 - ( methylenedioxy ) phenyl
	- <del>i</del>	chloro	H	3, 4 – (ethylenedioxy) phenyl
15	1	chloro	H	2 – hydroxyphenyl
	-i	chloro	Н	3 – hydroxyphenyl
	- <del>i-</del>	chloro	Н	4 – hydroxyphenyl
	1	chloro	H	2 – aminophenyl
	1	chloro	H	3 – aminophenyl
20	1	chloro	H	2 - ( methylamino ) phenyl
	1	chloro	H	3 - ( methylamino ) phenyl
	1	chloro	H.	4 - ( methylamino ) phenyl
	1	chloro	Н	2 - (dimethylamino) phenyl
	1	chloro	H	3 - (dimethylamino) phenyl
25	1	chloro	H	4 - (dimethylamino) phenyl
	1	chloro	H	2 – carboxyphenyl
	1	chloro	Н	3 – carboxyphenyl
	1	chloro	Н	4 – carboxyphenyl
30	1	chloro	Н	2 - ( methylcarbamoyl ) phenyl
30	1	chloro	Н	3 - ( methylcarbamoyl ) phenyl
	1	chloro	н	4 – ( methylcarbamoyl ) phenyl
İ	1	chloro	Н	2 - ( methoxycarbonyl ) phenyl
	1	chloro	Н	3 - ( methoxycarbonyl ) phenyl
<b>35</b> .	1	chloro	H	4 - ( methoxycarbonyl ) phenyl
	1	chloro	Н	2 - (ethoxycarbonyl) phenyl
	1	chloro	Н	3 - (ethoxycarbonyl) phenyl
	1	chloro	H	4 – (ethoxycarbonyl) phenyl
	1	chloro	H	2 - ( acetyloxy ) phenyl
40	1	chloro	H	3 – ( acetyloxy ) phenyl
	1	chloro	H	4 - ( acetyloxy ) phenyl
	1	chloro	H	2 – ( propionyloxy ) phenyl
	1	chloro	H	3 – ( propionyloxy ) phenyl
45	1	chloro	H	4 – ( propionyloxy ) phenyl
45	1_	chloro	H	2 - trifluoromethylphenyl
	1	chloro	H	3 - trifluoromethylphenyl
	1	chloro	H	4 - trifluoromethylphenyl
	1	chloro	H	2 – thienyl
50	1	chloro	Н	3 - thienyl
	1	chloro	Н	2 – furyl
	1	chloro	Н	3 – furyl
	1	chloro	Н	2 – pyridyl
	1	chloro	Н	3 – pyridyl
55	i	chloro	Н	4 – pyridyl
		·		

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### Table 3(continuation 6)

m	R¹	R <sup>3</sup>	Z
1	nitro	methyl	phenyl
1	nitro	methyl	2 – fluorophenyl
1	nitro	methyl	3 – fluorophenyl
i	nitro	methyl	4 – fluorophenyl
1	nitro	methyl	2, 4 – difluorophenyl
	nitro	methyl	2, 5 - difluorophenyl
1	nitro	methyl	2, 6 – difluorophenyl
i	nitro	methyl	3, 4 – difluorophenyl
1	nitro	methyl	3, 5 – difluorophenyl
i	nitro	methyl	2 – chlorophenyl
1	nitro	methyl	3 – chlorophenyl
i	nitro	methyl	4 – chlorophenyl
1	nitro	methyl	2, 4 – dichlorophenyl
1	nitro	methyl	3, 4 – dichlorophenyl
	nitro	methyl	2 – bromophenyl
1	nitro	methyl	3 – bromophenyl
1	nitro	methyl	4 - bromophenyl
1	nitro	methyl	2 – methylphenyl
1	nitro	methyl	3 – methylphenyl
1	nitro	methyl	4 – methylphenyl
1	nitro	methyl	2 – methoxyphenyl
1	nitro	methyl	3 - methoxyphenyl
1	nitro	methyl	4 - methoxyphenyl
1	nitro	methyl	2, 3 – dimethoxyphenyl
1	nitro	methyl	2, 4 - dimethoxyphenyl
1	nitro	methyl	3, 4 - dimethoxyphenyl
1	nitro	methyl	3, 5 - dimethoxyphenyl
1	nitro	methyl	3, 4 – ( methylenedioxy ) phenyl
1	nitro	methyl	3, 4 – (ethylenedioxy) phenyl
1	nitro	methyl	2 – hydroxyphenyl
1	nitro	methyl	3 – hydroxyphenyl
1	nitro	methyl	4 – hydroxyphenyl
1	nitro	methyl	2 – aminophenyl
1	nitro	methyl	3 – aminophenyl
1	nitro	methyl	4 – aminophenyl
1	nitro	methyl	2 – ( methylamino ) phenyl
1	nitro	methyl	3 - ( methylamino ) phenyl
1	nitro	methyl	4 - ( methylamino ) phenyl
1	nitro	methyl	2 - ( dimethylamino ) phenyl
1	nitro	methyl	3 - ( dimethylamino ) phenyl
1	nitro	methyl	4 - ( dimethylamino ) phenyl
1	nitro	methyl	2 – carboxyphenyl
1	nitro	methyl	3 – carboxyphenyl
1	nitro	methyl	4 – carboxyphenyl
1	nitro	methyl	2 - ( methylcarbamoyl ) phenyl
1	nitro	methyl	3 - ( methylcarbamoyl ) phenyl
1	nitro	methyl	4 - ( methylcarbamoyl ) phenyl
1	nitro	methyl	2 - ( methoxycarbonyl ) phenyl

Table 3(continuation 7)

•				7
5	m	R¹	R³	Z
	11	nitro	methyl	3 – ( methoxycarbonyl ) phenyl
	1	nitro	methyl	4 - ( methoxycarbonyl ) phenyl
	1	nitro	methyl	2 - ( ethoxycarbonyl ) phenyl
	1	nitro	methyl	3 - (ethoxycarbonyl) phenyl
10	1	nitro	methyl	4 – ( ethoxycarbonyl ) phenyl
	1	nitro	methyl	2 - ( acetyloxy ) phenyl
	ı	nitro	methyl	3 - ( acetyloxy ) phenyl
	1	nitro	methyl	4 - ( acetyloxy ) phenyl
	1	nitro	methyl	2 – ( propionyloxy ) phenyl
15	1	nitro	methyl	3 – ( propionyloxy ) phenyl
	1	nitro	methyl	4 – ( propionyloxy ) phenyl
	1	nitro	methyl	2 - trifluoromethylphenyl
	1	nitro	methyl	3 - trifluoromethylphenyl
	1	nitro	methyl	4 - trifluoromethylphenyl
20	1	nitro	methyl	. 2 – thienyl
	l	nitro	methyl	3 – thienyl
	1	nitro	methyl	2 — furyl
	1	nitro	methyl	3 – furyl
25	1	nitro	methyl	2 – pyridyl
	1	nitro	methyl	3 – pyridyl
	1	nitro	methyl	4 – pyridyl
	2	nitro	methyl	phenyl
	2	nitro	methyl	· 2 – fluorophenyl
30	2	nitro	methyl	3 — fluorophenyl
	2	nitro	methyl	4 – fluorophenyl
	2	nitro	methyl	2, 4 – difluorophenyl
	2	nitro	methyl	2, 5 – difluorophenyl
	2	nitro	methyl	2, 6 – difluorophenyl
35	2	nitro	methyl	3, 4 – difluorophenyl
	2	nitro	methyl	3, 5 – difluorophenyl 2 – chlorophenyl
	2	nitro	methyl	3 – chlorophenyl
	2	nitro	methyl methyl	4 – chlorophenyl
40	2	nitro	methyl	2, 4 – dichlorophenyl
40	2	nitro	methyl	3, 4 – dichlorophenyl
	2	nitro nitro	methyl	2 – bromophenyl
	2	nitro	methyl	3 – bromophenyl
	2	nitro	methyl	4 – bromophenyl
45	2	nitro	methyl	2 - methylphenyl
	2	nitro	methyl	3 - methylphenyl
	2	nitro	methyl	4 – methylphenyl
	2	nitro	methyl	2 - methoxyphenyl
	2	nitro	methyl	3 - methoxyphenyl
50			methyl	4 - methoxyphenyl
	2	nitro nitro	methyl	2, 3 – dimethoxyphenyl
	2		methyl	2, 4 – dimethoxyphenyl
		nitro	methyl	3, 4 – dimethoxyphenyl
	2	nitro	methyl	3, 5 – dimethoxyphenyl
55	2	nitro	memyi	3, 3 - didictiloxyphenyi

#### Table 3(continuation 8)

			13	ole 3(continuation 8)
	m	R¹	R <sup>3</sup>	Z
	2	nitro	methyl	3, 4 - ( methylenedioxy ) phenyl
	2	nitro	methyl	3, 4 - ( ethylenedioxy ) phenyl
	2	nitro	methyl	2 – hydroxyphenyl
	2	nitro	methyl	3 - hydroxyphenyl
)	2	nitro	methyl	4 - hydroxyphenyl
	2	nitro	methyl	2 – aminophenyl
	·2	nitro	methyl	3 – aminophenyl
	2	nitro	methyl	4 – aminophenyl
-	2	nitro	methyl	2 - ( methylamino ) phenyl
	2	nitro	methyl	3 - ( methylamino ) phenyl
	2	nitro	methyl	4 – ( methylamino ) phenyl
	2	nitro	methyl	2-( dimethylamino ) phenyl
	2	nitro	methyl	3 - ( dimethylamino ) phenyl
9	2	nitro	methyl	4-( dimethylamino ) phenyl
	2	nitro	methyl	2 – carboxyphenyl
	2	nitro	methyl	3 – carboxyphenyl
	2	nitro	methyl	4 – carboxyphenyl
	2	nitro	methyl	2 - ( methylcarbamoyl ) phenyl
5	2	nitro	methyl	3 - ( methylcarbamoyl ) phenyl
	2	nitro	methyl	4 - ( methylcarbamoyl ) phenyl
	2	nitro	methyl	2 - (methoxycarbonyl) phenyl
•	2	nitro	methyl	3 - (methoxycarbonyl) phenyl
9	2	nitro	methyl methyl	4 - (methoxycarbonyl) phenyl
	2	nitro nitro	methyl	2 – (ethoxycarbonyl) phenyl 3 – (ethoxycarbonyl) phenyl
	2	nitro	methyl	4 – (ethoxycarbonyl) phenyl
	2	nitro	methyl	2 – ( acetyloxy ) phenyl
	2	nitro	methyl	3 - (acetyloxy) phenyl
5	2	nitro	methyl	4 – (acetyloxy) phenyl
	2	nitro	methyl	2 – (propionyloxy) phenyl
	2	nitro	methyl	3 – ( propionyloxy ) phenyl
	2	nitro	methyl	4 – ( propionyloxy ) phenyl
	2	nitro	methyl	2 - trifluoromethylphenyl
	2	nitro	methyl	3 - trifluoromethylphenyl
	2	nitro	methyl	4 - trifluoromethylphenyl
	2	nitro_	methyl	2 – thienyl
	2	nitro	methyl	3 – thienyl
5	2	nitro	methyl	2 – furyl
	2	nitro_	methyl	3 – furyl
	2	nitro	methyl	2 – pyridyl
	2	nitro	methyl	3 – pyridyl
	2	nitro	methyl	4 – pyridyl
0	1	nitro	ethyl	phenyl
	1	nitro	ethyl	2 – fluorophenyl
	1	nitro	ethyl	3 – fluorophenyl
	1	nitro	ethyl	4 – fluorophenyl
	11	nitro	ethyl	2, 4 – difluorophenyl
5	1	nitro	ethvl.	2 5 - diffuoranhanul

nitro

ethyl

2, 5 - disluorophenyl

### Table 3(continuation 9)

				· · · · · · · · · · · · · · · · · · ·
!	m	R¹	R <sup>3</sup>	Z
5	1	nitro	ethyl	2, 6 - difluorophenyl
	1	nitro	ethyl	3, 4 – difluorophenyl
	1	nitro	ethyl	3, 5 - difluorophenyl
	1	nitro	ethyl	2 – chlorophenyl
10	1	nitro	ethyl	3 - chlorophenyl
10	1	nitro	ethyl	4 – chlorophenyl
	1	nitro	ethyl	2, 4 – dichlorophenyl
	1	nitro	ethyl	3, 4 – dichlorophenyl
	1	nitro	ethyl	2 – bromophenyl
15	1	nitro	ethyl	3 - bromophenyl
		nitro	ethyl	4 – bromophenyl
	$\left  \frac{1}{1} \right $	nitro	ethyl	2 - methylphenyl
		nitro	ethyl	3 - methylphenyl
	1	nitro	ethyl	4 – methylphenyl
20	1	nitro	ethyl	2 – methoxyphenyl
		nitro	ethyl	3 – methoxyphenyl
	1	nitro	ethyl	4 – methoxyphenyl
	1-1-	nitro	ethyl	2, 3 - dimethoxyphenyl
a.c.	1	nitro	ethyl	2, 4 - dimethoxyphenyl
25	1	nitro	ethyl	3, 4 - dimethoxyphenyl
	1	nitro	ethyl	3, 5 - dimethoxyphenyl
	1	nitro	ethyl	3, 4 - ( methylenedioxy ) phenyl
	1	nitro	ethyl	3, 4 - (ethylenedioxy) phenyl
30	i	nitro	ethyl	2 – hydroxyphenyl
	1	nitro	ethyl	3 – hydroxyphenyl
	1	nitro	ethyl	4 – hydroxyphenyl
	1	nitro	ethyl	2 – aminophenyl
	1	nitro	ethyl	3 – aminophenyl
35	1	nitro	ethyl	4 – aminophenyl
	1	nitro	ethyl	2 - ( methylamino ) phenyl
	1	nitro	ethyl	3 - ( methylamino ) phenyl
	1	nitro	ethyl	4 - ( methylamino ) phenyl
0.2	1	nitro	ethyl	2 - (dimethylamino) phenyl
40	1	. nitro	ethyl	3 - (dimethylamino) phenyl
	1	nitro	ethyl	4 - (dimethylamino) phenyl
	1	nitro	ethyl	2 – carboxyphenyl
	1	nitro	ethyl	3 – carboxyphenyl
45	1	nitro	ethyl	4 – carboxyphenyl
40	1	nitro	ethyl	2 - ( methylcarbamoyl ) phenyl
	1	nitro	ethyl	3 - (methylcarbamoyl) phenyl
	1	nitro	ethyl	4 - (methylcarbamoyl) phenyl
	1	nitro	ethyl	2 - (methoxycarbonyl) phenyl
50	1	nitro	ethyl	3 - (methoxycarbonyl) phenyl
	1	nitro	ethyl	4 - (methoxycarbonyl) phenyl
	1	nitro	ethyl	2 – ( ethoxycarbonyl ) phenyl
	. 1	nitro	ethyl	3 – (ethoxycarbonyl) phenyl
	1	nitro	ethyl	4 - ( ethoxycarbonyl ) phenyl

60

ethyl

nitro

2-(acetyloxy) phenyl

Table 3(continuation 10)

. . .

m	R³	R <sup>3</sup>	Z
1	nitro	ethyl	3 - ( acetyloxy ) phenyl
1	nitro	ethyl	4 - ( acetyloxy ) phenyl
1	nitro	ethyl	2 – ( propionyloxy ) phenyl
1	nitro	ethyl	3 - ( propionyloxy ) phenyl
1	nitro	ethyl	4 - ( propionyloxy ) phenyl
1	nitro	ethyl	2 - trifluoromethylphenyl
1	nitro	ethyl	3 - trifluoromethylphenyl
1	nitro	ethyl	4 - trifluoromethylphenyl
1	nitro	ethyl	2 – thienyl
1	nitro	ethyl	3 – thienyl
1	nitro	ethyl	2 – furyl
1	nitro	ethyl	3 – furyl
1	nitro	ethyl	2 – pyridyl
1	nitro	ethyl	3 – pyridyl
1	nitro	ethyl	4 – pyridyl
2	nitro	ethyl	phenyl
2	nitro	cthyl	2 – fluorophenyl
2	nitro	ethyl	3 – fluorophenyl
2	nitro	ethyl	4 – fluorophenyl
2	nitro	ethyl	2, 4 – difluorophenyl
2	nitro	ethyl	2, 5 – difluorophenyl
2	pitro	ethyl	2, 6 – difluorophenyl
2	nitro	ethyl	3, 4 - difluorophenyl
2	nitro	ethyl	3, 5 – difluorophenyl
2	nitro	ethyl	2 - chlorophenyl
2	nitro	ethyl	3 - chlorophenyl
2	nitro	ethyl	4 – chlorophenyl
2	nitro	ethyl	2, 4 – dichlorophenyl
2	nitro	ethyl	3, 4 – dichlorophenyl
2	nitro	ethyl	2 – bromophenyl
2	nitro	ethyl	3 - bromophenyl 4 - bromophenyl
2	nitro	ethyl	2 – methylphenyl
2	nitro nitro	ethyl ethyl	3 – methylphenyl
2	nitro	ethyl	4 – methylphenyl
2	nitro	ethyl	2 – methoxyphenyl
2	nitro	ethyl	3 - methoxyphenyl
2	nitro	ethyl	4 – methoxyphenyl
2	nitro	ethyl	2, 3 – dimethoxyphenyl
2	nitro	ethyl	2, 4 – dimethoxyphenyl
	nitro	ethyl	3, 4 – dimethoxyphenyl
2 2 2	nitro	ethyl	3, 5 – dimethoxyphenyl
2	nitro	ethyl	3, 4 – ( methylenedioxy ) phenyl
2	nitro	ethyl	3, 4 – (ethylenedioxy) phenyl
2	nitro	ethyl	2 - hydroxyphenyl
2	nitro	ethyl	3 – hydroxyphenyl
2	nitro	ethyl	4 – hydroxyphenyl
2	nitro	ethyl	2 – aminophenyl
	1 11110	, 5,4,1	2 anninohmon);

#### Table 3(continuation 11)

	Table 3(continuation 11)				
5	m	R1	R <sup>3</sup>	Z	
	2	nitro	ethyl	3 – aminophenyl	
	2	nitro	ethyi	4 – aminophenyl	
	2	nitro	ethyl	2-( methylamino ) phenyl	
	2	nitro	ethyl	3 - ( methylamino ) phenyl	
10	2	nitro	ethyl	4 - ( methylamino ) phenyl	
	2	nitro	ethyl	2 - ( dimethylamino ) phenyl	
	2	nitro	ethyl	3 - ( dimethylamino ) phenyl	
	2	nitro	ethyl	4 - ( dimethylamino ) phenyl	
45	2	nitro	ethyl	2 - carboxyphenyl	
15	2	nitro	ethyl	3 – carboxyphenyl	
	2	nitro	ethyl	4 – carboxyphenyl	
	2	nitro	ethyl	2 - ( methylcarbamoyl ) phenyl	
	2	nitro	ethyl	3 - ( methylcarbamoyl ) phenyl	
20	2	nitro	ethyl	4 - ( methylcarbamoyl ) phenyl	
	2	nitro	ethyl	2 - ( methoxycarbonyl ) phenyl	
	2	nitro	ethyl	3 - ( methoxycarbonyl ) phenyl	
	2	nitro	ethyl	4 - ( methoxycarbonyl ) phenyl	
	2	nitro	ethyl	2 - ( ethoxycarbonyl ) phenyl	
25	2	nitro	ethyl	3 - (ethoxycarbonyl) phenyl	
	2	nitro	ethyl	4 - (ethoxycarbonyl) phenyl	
	2	nitro	ethyl	2 – ( acetyloxy ) phenyl	
	2	nitro	ethyl	3 – ( acetyloxy ) phenyl	
•	2	nitro	ethyl	4 – ( acetyloxy ) phenyl	
30	2	nitro	ethyl	2 – (propionyloxy) phenyl	
	2	nitro	ethyl	3 – ( propionyloxy ) phenyl	
	2	nitro	ethyl	4 – ( propionyloxy ) phenyl 2 – trifluoromethylphenyl	
	2	nitro	ethyl ethyl	3 - trifluoromethylphenyl	
35	2	nitro nitro	ethyl	4 - trifluoromethylphenyl	
	2	nitro	ethyl	2 – thienyl	
	2	nitro	ethyl	3 – thienyl	
	2	nitro	ethyl	2 – furyl	
	2	nitro	ethyl	3 – furyl	
40	2	nitro	ethyl	2 – pyridyl	
1	2	nitro	ethyl	3 – pyridyl	
!	2	nitro	cthyl	4 – pyridyl	
	1	nitro	propyl	phenyl	
	1	nitro	propyl	2 – fluorophenyl	
45	1	nitro	propyl	3 - fluorophenyl	
	1	nitro	propyl	4 – fluorophenyl	
	1	nitro	propyl	2, 4 - difluorophenyl	
	1	nitro	propyl	2, 5 - difluorophenyl	
50	1	nitro	propyl	2, 6 - difluorophenyl	
	1	nitro	propyl	3, 4 - difluorophenyl	
	1	nitro	propyl	3, 5 - difluorophenyl	
	1	nitro	propyl	2 - chlorophenyl	
	1	nitro	propyl	3 - chlorophenyl	
	<del></del>	<b>,</b>			

nitro

55

4 - chlorophenyl

Table 3(continuation 12)

	Table 3(continuation 12)			
5	m	$R^1$	R3	· Z
-	1	pitro	propyl	2, 4 - dichlorophenyl
	1	nitro	propyl	3, 4 - dichlorophenyl
	1	nitro	propyl	2 - bromophenyl
	1	nitro	propyl	3 – bromophenyl
10	1	nitro	propyl	4 - bromophenyl
	1	nitro	propyl	2 - methylphenyl
	1	nitro	propyl	3 - methylphenyl
	1	nitro	propyl	4 - methylphenyl
.0	1	nitro	propyl	2 - methoxyphenyl
15	1	nitro	propyl	3 – methoxyphenyl
	1	nitro	propyl	4 – methoxyphenyl
	1	nitro	propyl	2, 3 - dimethoxyphenyl
	1	nitro	propyl	2, 4 - dimethoxyphenyl
20	1	nitro	propyl	3, 4 - dimethoxyphenyl
	1	nitro	propyl	3, 5 - dimethoxyphenyl
	1	nitro	propyl	3, 4 - ( methylenedioxy ) phenyl
	1	nitro	propyl	3, 4 - (ethylenedioxy) phenyl
	1	nitro	propyl	2 – hydroxyphenyl
25	1	nitro	propyl	3 – hydroxyphenyl
	1	nitro	propyl	4 – hydroxyphenyl
	1	nitro	propyl	2 – aminophenyl
	1	nitro	propyl	3 – aminophenyl
30	1	nitro	propyl	4 – aminophenyl
30	1	nitro	propyl	2 - ( methylamino ) phenyl
•	1	nitro	propyl	3 – (methylamino) phenyl
	1	nitro	propyl	4 – ( methylamino ) phenyl 2 – ( dimethylamino ) phenyl
	1	nitro	propyl	2 - ( dimethylamino ) phenyl 3 - ( dimethylamino ) phenyl
35	1	nitro nitro	propyl propyl	4 - (dimethylamino) phenyl
	1	nitro	propyl	2 – carboxyphenyl
	1	nitro	propyl	3 – carboxyphenyl
	1	nitro	propyl	4 – carboxyphenyl
	1	nitro	propyl	2 - ( methylcarbamoyl ) phenyl
40	i	nitro	propyl	3 - ( methylcarbamoyl ) phenyl
	1	nitro	propyl	4 – ( methylcarbamoyl ) phenyl
	1	nitro	propyl	2 - ( methoxycarbonyl ) phenyl
	1	nitro	propyl	3 - ( methoxycarbonyl ) phenyl
45	1	nitro	propyl	4 – ( methoxycarbonyl ) phenyl
**	1	nitro	propyl	2 - (ethoxycarbonyl) phenyl
	1	nitro	propyl	3 - (ethoxycarbonyl) phenyl
	1	nitro	propyl	4 - ( ethoxycarbonyl ) phenyl
	1	nitro	propyl	2 - ( acetyloxy ) phenyl
50	1	nitro	propyl	3 - (acetyloxy) phenyl
	1	aitro	propyl	4 – ( acetyloxy ) phenyl
	1	nitro	propyl	2 – ( propionyloxy ) phenyl
	1	nitro	propyl	3 - ( propionyloxy ) phenyl
	1	nitro	propyl	4 – ( propionyloxy ) phenyl
55	1	-:		2 trifluggamethydahaand

nitro

propyl

63

55

2 - trifluoromethylphenyl

### Table 3(continuation 13)

	table 5(continuation 15)				
	m	R <sup>1</sup>	R³	Z	
	1	nitro	propyl	3 - trifluoromethylphenyl	
	1	nitro	propyl	4 - trifluoromethylphenyl	
	1	nitro	propyl	2 – thienyl	
	1	nitro	propyl	3 – thienyl	
	1	nitro	propyl	2 – furyl	
	1	nitro	propyl	3 – furyl	
	1	nitro	propyl	2 – pyridyl	
	1	nitro	propyl	3 – pyridyl	
	1	nitro	propyl	4 – pyridyl	
	2	nitro	ргоруі	phenyl	
	2	nitro	propyl	2 – fluorophenyl	
	2	nitro	propyl	3 – fluorophenyl	
	2	nitro	propyl	4 – fluorophenyl	
	2	nitro	ргоруі	2, 4 - difluorophenyl	
	2	nitro	propyl	2, 5 - difluorophenyl	
	2	nitro	propyl	2, 6 - difluorophenyl	
	2	nitro	propyl	3, 4 - difluorophenyl	
	2	nitro	propyl	3, 5 - difluorophenyl	
	2	nitro .	propyl	2 – chlorophenyl	
	2	nitro	propyl	3 – chlorophenyl	
	2	nitro	propyl	4 – chlorophenyl	
	2	nitro	propyl	2, 4 - dichlorophenyl	
	2	nitro	propyl	3, 4 - dichlorophenyl	
	2	nitro	propyl	2 - bromophenyl	
	2	nitro	propyl	3 - bromophenyl	
	2	nitro	propyl	4 – bromophenyl	
	2	nitro	propyl	2 – methylphenyl	
	2	nitro	propyl	3 – methylphenyl	
	2	nitro	propyl	4 – methylphenyl	
	2	nitro	propyl	2 – methoxyphenyl	
	2	nitro	propyl	3 – methoxyphenyl	
	2	nitro	propyl	4 – methoxyphenyl	
	2	nitro	propyl	2, 3 - dimethoxyphenyl	
	2	nitro	propyl	2, 4 - dimethoxyphenyl	
\	2	nitro	propyl	3, 4 - dimethoxyphenyl	
	. 2	nitro_	propyl	3, 5 - dimethoxyphenyl	
	2	nitro	propyl	3, 4 – ( methylenedioxy ) phenyl	
	2	nitro	propyl	3, 4 – (ethylenedioxy) phenyl	
	2	nitro	propyl	2 – hydroxyphenyl	
	2	nitro	propyl	3 – hydroxyphenyl	
	2	nitro	propyl	4 – hydroxyphenyl	
	2	nitro	propyl	2 – aminophenyl	
	2	nitro	propyl	3 – aminophenyl	
	2	nitro	propyl	4 – aminophenyl	
	2	nitro	propyl	2 – ( methylamino ) phenyl	
	2	nitro	propyl	3 – ( methylamino ) phenyl	
	2	nitro	propyl	4 - ( methylamino ) phenyl	
,					

nitro

propyl

2-( dimethylamino ) phenyl

### Table 3(continuation 14)

m	R¹	R <sup>3</sup>	Z
2	nitro	propyl	3 - ( dimethylamino ) phenyl
2	nitro	propyl	4 - ( dimethylamino ) phenyl
2	nitro	propyl	2 - carboxyphenyl
2	nitro	ргоруі	3 - carboxyphenyl
2	nitro	propyl	4 – carboxyphenyl
2	nitro	propyl	2 - ( methylcarbamoyl ) phenyl
2	nitro	propyl	3 - ( methylcarbamoyl ) phenyl
2	nitro	ргоруі	4 - ( methylcarbamoyl ) phenyl
2	nitro	propyl	2 - ( methoxycarbonyl ) phenyl
2	nitro	propyl	3 - ( methoxycarbonyl ) phenyl
2	nitro	propyl	4 - ( methoxycarbonyl ) phenyl
2	nitro	propyl	2-(ethoxycarbonyl) phenyl
2	nitro	propyl	3 - (ethoxycarbonyl) phenyl
2	nitro	propyl	4 - (ethoxycarbonyl) phenyl
2	nitro	propyl	2 - ( acetyloxy ) phenyl
2	nitro	propyl	3 - (acetyloxy) phenyl
2	nitro	propyl	4 - ( acetyloxy ) phenyl
2	nitro	propyl	2 – ( propionyloxy ) phenyl
2	nitro	propyl	3 – ( propionyloxy ) phenyl
2	nitro	propyl	4 – ( propionyloxy ) phenyl
2	nitro	propyl	2 - trifluoromethylphenyl
2	nitro	propyl	3 - trifluoromethylphenyl
2	nitro	propyl	4 - trifluoromethylphenyl
2	nitro	propyl	2 – thienyl
2	nitro	propyl	3 – thienyl
2	nitro	propyl	2 – furyl
2	nitro	propyl	3 – furyl
2	nitro	propyl	2 – pyridyl
2	nitro	propyl	3 – pyridyl
1	nitro	propyl	4 – pyridyl
1	nitro	isopropyl	phenyl
1	nitro nitro	isopropyl	2 – fluorophenyl 3 – fluorophenyl
1	nitro	isopropyl isopropyl	4 – fluorophenyl
1	nitro	isopropyl	2, 4 – difluorophenyl
1	nitro	isopropyl	2, 5 – difluorophenyl
- <del>i</del>	nitro	isopropyl	2, 6 – difluorophenyl
1	nitro	isopropyl	3, 4 – difluorophenyl
1	nitro	isopropyl	3, 5 - difluorophenyl
1	nitro	isopropyl	2 – chlorophenyl
1	nitro	isopropyl	3 – chlorophenyl
	nitro	isopropyl	4 – chlorophenyl
1	nitro	isopropyl	2, 4 – dichlorophenyl
1	nitro	isopropyl	3, 4 – dichlorophenyl
1	nitro	isopropyl	2 - bromophenyl
1	nitro	isopropyl	3 - bromophenyl
1	nitro	isopropyl	4 - bromophenyl
- 1			2 - methylphenyl
	nitro	isopropyl	z – memyipnenyi

Table 3(continuation 15)

	Table 3(continuation 13)				
_	m	R <sup>1</sup>	R <sup>3</sup>	Z	
5	1	nitro	isopropyl	3 - methylphenyl	
	1	nitro	isopropyl	4 - methylphenyl	
	1	nitro	isopropyl	2 - methoxyphenyl	
	1	nitro	isopropyl	3 - methoxyphenyl	
10	1	nitro	isopropyl	4 - methoxyphenyl	
	1	nitro	isopropyl	2, 3 - dimethoxyphenyl	
	1	nitro	isopropyl	2, 4 - dimethoxyphenyl	
	1	nitro	isopropyl	3, 4 - dimethoxyphenyl	
	1	nitro	isopropyl	3, 5 - dimethoxyphenyl	
15	1	nitro	isopropyl	3, 4 – ( methylenedioxy ) phenyl	
	1	nitro	isopropyl	3, 4 - (ethylenedioxy) phenyl	
	1	nitro	isopropyl	2 - hydroxyphenyl	
	1	nitro	isopropyl	3 - hydroxyphenyl	
20	1	nitro	isopropyl	4 – hydroxyphenyl	
20	1	nitro	isopropyl	2 – aminophenyl	
	1	nitro	isopropyl	3 - aminophenyl	
	1	nitro	isopropyl	4 – aminophenyl	
	1	nitro	isopropyl	2 - ( methylamino ) phenyl	
25	1	nitro	isopropyl	3 – ( methylamino ) phenyl	
	1	nitro	isopropyl	4 – ( methylamino ) phenyl	
	1	nitro	isopropyl	2 - ( dimethylamino ) phenyl	
	1	nitro	isopropyl	3 – (dimethylamino) phenyl	
	1	nitro	isopropyl	4 – (dimethylamino) phenyl	
30	1	nitro	isopropyl	2 - carboxyphenyl	
	1	nitro	isopropyl	3 – carboxyphenyl	
	1	nitro	isopropyl	4 - carboxyphenyl	
	1	nitro nitro	isopropyl	2 - (methylcarbamoyl) phenyl 3 - (methylcarbamoyl) phenyl	
35	1	nitro	isopropyl isopropyl	3 - ( methylcarbamoyl ) phenyl 4 - ( methylcarbamoyl ) phenyl	
33	1	nitro	isopropyl	2 - ( methoxycarbonyl ) phenyl	
	1	nitro	isopropyl	3 – (methoxycarbonyl) phenyl	
	1	nitro	isopropyl	4 - (methoxycarbonyl) phenyl	
	1	nitro	isopropyl	2 – ( ethoxycarbonyl ) phenyl	
40	1	nitro	isopropyl	3 – (ethoxycarbonyl) phenyl	
	i	nitro	isopropyl	4 – (ethoxycarbonyl) phenyl	
	1	nitro	isopropyl	2 – ( acetyloxy ) phenyl	
	1	nitro	isopropyl	3 - (acetyloxy) phenyl	
	1	nitro	isopropyl	4 – (acetyloxy) phenyl	
45	1	nitro	isopropyl	2 - (propionyloxy) phenyl	
	1	nitro	isopropyl	3 – (propionyloxy) phenyl	
	1	nitro	isopropyl	4 - ( propionyloxy ) phenyl	
	1	nitro	isopropyl	2 - trifluoromethylphenyl	
50	1	nitro	isopropyl	3 - trifluoromethylphenyl	
30	1	nitro	isopropyl	4 - trifluoromethylphenyl	
	1	nitro	isopropyl	2 – thienyl	
	1	nitro	isopropyl	3 – thienyl	
	1	nitro	isopropyl	2 – furyl	
55	1	-:+	:	2 6-1	

nitro

55

isopropyl

3 - furyl

Table 3(continuation 16)

m	R¹	R <sup>3</sup>	Z
1	nitro	isopropyl	2 – pyridyl
1	nitro	isopropyl	3 – pyridyl
1	nitro	isopropyl	4 – pyridyl
2	nitro	isopropyl	phenyl
2	nitro	isopropyl	2 – fluorophenyl
2	nitro		3 – fluorophenyl
2	nitro	isopropyl	
1 2		isopropyl	4 – fluorophenyl
2 2 2 2	nitro	isopropyl	2, 4 – difluorophenyl
1 2	nitro	isopropyl	2, 5 – difluorophenyl
1-2-	nitro	isopropyl	2, 6 – difluorophenyl
2	nitro	isopropyl	3, 4 – difluorophenyl
2	nitro	isopropyl	3, 5 – difluorophenyl
2	nitro	isopropyl	2 - chlorophenyl
2	nitro	isopropyl	3 - chlorophenyl
2	nitro	isopropyl	4 - chlorophenyl
2	nitro	isopropyl	2, 4 – dichlorophenyl
2	nitro	isopropyl	3, 4 - dichlorophenyl
2 2 2 2 2	nitro	isopropyl	2 - bromophenyl
2	nitro	isopropyl	3 - bromophenyl
2	nitro	isopropyl	4 - bromophenyl
2	nitro	isopropyl	2 - methylphenyl
	nitro	isopropyl	3 - methylphenyl
2	nitro	isopropyl	4 – methylphenyl
2	nitro	isopropyl	2 - methoxyphenyl
2	nitro	isopropyl	3 – methoxyphenyl
2	nitro	isopropyl	4 - methoxyphenyl
1 2	nitro	isopropyl	2, 3 – dimethoxyphenyl
2	nitro	isopropyl	2, 4 – dimethoxyphenyl
2 2 2 2 2	nitro	isopropyl	3, 4 – dimethoxyphenyl
1-2	nitro	isopropyl	3, 5 – dimethoxyphenyl
1 2	nitro	isopropyl	3, 4 – (methylenedioxy) phenyl
2	nitro	isopropyl	3, 4 – (ethylenedioxy) phenyl
	nitro	isopropyl	2 – hydroxyphenyl
1 2	nitro	isopropyl	3 – hydroxyphenyl
2 2 2 2 2	nitro nitro	isopropyl	4 – hydroxyphenyl 2 – aminophenyl
1 2		isopropyl	
1-2	nitro	isopropyl	3 – aminophenyl
ļ	nitro	isopropyl	4 – aminophenyl
2	nitro	isopropyl	2 - ( methylamino ) phenyl
2	nitro	isopropyl	3 – ( methylamino ) phenyl
2	nitro	isopropyl	4 – (methylamino) phenyl
2	nitro	isopropyl	2 - (dimethylamino) phenyl
2	nitro	isopropyl	3 - (dimethylamino) phenyl
2	nitro	isopropyl	4 - (dimethylamino) phenyl
2	nitro	isopropyl	2 - carboxyphenyl
2	nitro	isopropyl	3 – carboxyphenyl
2	nitro	isopropyl	4 - carboxyphenyl
2	nitro	isopropyl	2 - ( methylcarbamoyl ) phenyl

# Table 3(continuation 17)

				(CONTINUATION 17)
5	m	R¹	R³	Z
	2	nitro	isopropyl	3 - (methylcarbamoyl) phenyl
	2	nitro	isopropyl	4 - ( methylcarbamoyl ) phenyl
	2	nitro	isopropyl	2 - ( methoxycarbonyl ) phenyl
	2	nitro	isopropyl	3 - (methoxycarbonyl) phenyl
10	2	nitro	isopropyl	4 – ( methoxycarbonyl ) phenyl
	2	nitro	isopropyl	2-(ethoxycarbonyl) phenyl
	2	nitro	isopropyl	3 - (cthoxycarbonyl) phenyl
	2	nitro	isopropyl	4 - (ethoxycarbonyl) phenyl
	2	nitro		2 – (acetyloxy) phenyl
15	2	nitro	isopropyl	
	2	nitro	isopropyl	3 – (acetyloxy) phenyl
	2		isopropyl	4 - (acetyloxy) phenyl
	2	nitro	isopropyl	2 – ( propionyloxy ) phenyl
		nitro	isopropyl	3 – ( propionyloxy ) phenyl
20	2	nitro	isopropyl	4 - ( propionyloxy ) phenyl
	2	nitro	isopropyl	2 - trifluoromethylphenyl
	2	nitro	isopropyl	3 - trifluoromethylphenyl
	2	nitro	isopropyl	4 - trifluoromethylphenyl
25	2	nitro	isopropyl	2 – thienyl
25	2	nitro	isopropyl	3 – thienyl
	2	nitro	isopropyl	2 – furyl
	2	nitro	isopropyl	3 – furyl
	2	nitro nitro	isopropyl	2 – pyridyl
30	2	nitro	isopropyl isopropyl	3 – pyridyl
	1	nitro	butyl	4 – pyridyl
	1	nitro	butyl	phenyl 2 – fluorophenyl
	1	nitro	butyl	3 – fluorophenyl
	1	nitro	butyl	4 – fluorophenyl
35	1	nitro	butyl	2, 4 – difluorophenyl
	1	nitro	butyl	2, 5 – difluorophenyl
	1	nitro	butyl	2, 6 - difluorophenyl
	i	nitro	butyl	3, 4 – difluorophenyl
	1	nitro	butyl	3, 5 – difluorophenyl
40	1	nitro	butyl	2 - chlorophenyl
	i	nitro	butyl	3 - chlorophenyl
	1	nitro	butyl	4 – chlorophenyl
	1	nitro	butyl	2, 4 - dichlorophenyl
45	1	nitro	butyl	3, 4 – dichlorophenyl
45	1	nitro	butyl	2 – bromophenyl
	1	nitro	butyl	3 - bromophenyl
	1	nitro	butyl	4 - bromophenyl
	1	nitro	butyl	2 – methylphenyl
50	1	nitro	butyl	3 – methylphenyl
	1	nitro	butyl	4 – methylphenyl
	1	nitro	butyl	2 - methoxyphenyl
	i	nitro	butyl	3 – methoxyphenyl
	i	nitro	butyl	4 – methoxyphenyl
55	1	nitro	butyl	2, 3 – dimethoxyphenyl
		mao	Outy1	2, 3 - unitemoxyphenyi

### Table 3(continuation 18)

	rable 3(continuation 18)			
	m	R <sup>1</sup>	R <sup>3</sup>	Z
	1	nitro	butyl	2, 4 - dimethoxyphenyl
	1	nitro	butyl	3, 4 - dimethoxyphenyl
	1	nitro	butyl	3, 5 - dimethoxyphenyl
	1	nitro	butyl	3, 4 - ( methylenedioxy ) phenyl
	1	nitro	butyl	3, 4 - (ethylenedioxy) phenyl
	1	nitro	butyl	2 – hydroxyphenyl
	1	nitro	butyl	3 – hydroxyphenyl
	1	nitro	butyl	4 – hydroxyphenyl
	1	nitro	butyl	2 – aminophenyl
	1	nitro	butyl	3 - aminophenyl
	1	nitro	butyl	4 – aminophenyl
	1	nitro	butyl	2 - ( methylamino ) phenyl
	1	nitro	butyl	3 - ( methylamino ) phenyl
	1	nitro	butyl	4 - ( methylamino ) phenyl
	1	nitro	butyl	2-(dimethylamino) phenyl
	1	nitro	butyl	3-(dimethylamino) phenyl
	1	nitro	butyl	4 - ( dimethylamino ) phenyl
	1	nitro	butyl	2 - carboxyphenyl
	1	nitro	butyl	3 – carboxyphenyl .
	1	nitro	butyl	4 – carboxyphenyl
	1	nitro	butyl	2 – ( methylcarbamoyl ) phenyl
	1	nitro	butyl	3 - (methylcarbamoyl) phenyl
	1	nitro	butyl	4 – ( methylcarbamoyl ) phenyl
	1	nitro	butyl	2 - ( methoxycarbonyl ) phenyl
	1	nitro	butyl	3 - ( methoxycarbonyl ) phenyl
	1	nitro	butyl	4 - ( methoxycarbonyl ) phenyl
	1	nitro	butyl	2 - ( ethoxycarbonyl ) phenyl
	1	nitro	butyl	3 - (ethoxycarbonyl) phenyl
	1	nitro	butyl	4 – (ethoxycarbonyl) phenyl
	1	nitro	butyl	2-(acetyloxy) phenyl
;	1	nitro	butyl	3 - ( acetyloxy ) phenyl
	1	nitro	butyl	4 - ( acetyloxy ) phenyl
,	1	nitro	butyl	2 – ( propionyloxy ) phenyl
	1	nitro	butyl	3 – (propionyloxy) phenyl
	1	nitro	butyl	4 – (propionyloxy) phenyl
	1	nitro	butyl	2 - trifluoromethylphenyl
	1	nitro	butyl	3 - trifluoromethylphenyl
;	1	nitro	butyl	4 - trifluoromethylphenyl
	1	nitro	butyl	2 – thienyl
	1	nitro	butyl	3 – thienyl
	1	nitro	butyl	2 – furyl
Į	1	nitro	butyl	3 – furyl
	1	nitro	butyl	2 – pyridyl
	1	nitro	butyl	3 – pyridyl
	1	nitro	butyl	4 – pyridyl
	2	nitro	butyl	phenyl
	2	nitro	butyl	2 – fluorophenyl
		mitma	Janes 1	1 flyorophonyl

nitro

butyl-

3 - fluorophenyl

Table 3(continuation 19)

m	Ri	R³	Z
2	nitro	butyl	4 – fluorophenyl
2	nitro	butyl	2, 4 - difluorophenyl
2	nitro	butyl	2, 5 - difluorophenyl
2	nitro	butyl	2, 6 - difluorophenyl
			3, 4 – difluorophenyl
2	nitro	butyl	
- 2	nitro	butyl	3, 5 – difluorophenyl
2	nitro	butyl	2 – chlorophenyl
2	nitro	butyl	3 – chlorophenyl
2	nitro	butyl	4 – chlorophenyl
2	nitro	butyl	2, 4 – dichlorophenyl
2	nitro	butyl	3, 4 - dichlorophenyl
2	nitro	butyl	2 – bromophenyl
2	nitro	butyl	· 3 – bromophenyl
2	nitro	butyl	4 – bromophenyl
2	nitro	butyl	2 - methylphenyl
2	nitro	butyl	3 – methylphenyl
2	nitro	butyl	4 - methylphenyl
2	nitro	butyl	2 - methoxyphenyl
2	nitro	butyl	3 - methoxyphenyl
2	nitro	butyl	.4 - methoxyphenyl
2	nitro	butyl	2, 3 - dimethoxyphenyl
2	nitro	butyl	2, 4 - dimethoxyphenyl
2	nitro	butyl	3, 4 - dimethoxyphenyl
2	nitro	butyl	3, 5 - dimethoxyphenyl
2	nitro	butyl	3, 4 – ( methylenedioxy ) phenyl
2	nitro	butyl	3, 4 – (ethylenedioxy) phenyl
2	nitro	butyl	2 - hydroxyphenyl
2	nitro	butyl	3 – hydroxyphenyl
2	nitro	butyl	4 - hydroxyphenyl
2	nitro	butyl	2 - aminophenyl
2	nitro	butyl	3 – aminophenyl
2	nitro	butyl	4 – aminophenyl
2	nitro	butyl	2 - ( methylamino ) phenyl
2	nitro	butyl	3 - ( methylamino ) phenyl
2	nitro	butyl	4 - ( methylamino ) phenyl
2	nitro	butyl	2 - ( dimethylamino ) phenyl
2	nitro	butyl	3 - ( dimethylamino ) phenyl
2	nitro	butyl	4 - ( dimethylamino ) phenyl
2	nitro	butyl	2 - carboxyphenyl
2	nitro	butyl	3 - carboxyphenyl
2	nitro	butyl	4 - carboxyphenyl
2	nitro	butyl	2-( methylcarbamoyl ) phenyl
2	nitro	butyl	3 - ( methylcarbamoyl ) phenyl
2	nitro	butyl	4 – ( methylcarbamoyl ) phenyl
2	nitro	butyl	2-( methoxycarbonyl ) phenyl
2	nitro	butyl	3 - ( methoxycarbonyl ) phenyl
2	nitro	butyl	4 - ( methoxycarbonyl ) phenyl
2	nitro	butyl	2 – ( ethoxycarbonyl ) phenyl

Table 3(continuation 20)

	Table 3(continuation 20)						
5	m	$\mathbb{R}^1$	R <sup>3</sup>	Z			
-	2	nitro	butyl	3 - ( ethoxycarbonyl ) phenyl			
	2	nitro	butyl	4 - (ethoxycarbonyl) phenyl			
	2	nitro	butyl	2 - ( acetyloxy ) phenyl			
	2	nitro	butyl	3 - (acetyloxy) phenyl			
10	2	nitro	butyl	4 - ( acetyloxy ) phenyl			
	2	nitro	butyl	2 - ( propionyloxy ) phenyl			
	2	nitro	butyl	3 - ( propionyloxy ) phenyl			
	2	nitro	butyl	4 - ( propionyloxy ) phenyl			
	2	nitro	butyl	2 - trifluoromethylphenyl			
15	2	nitro	butyl	3 - trifluoromethylphenyl			
	2	nitro	butyl	4 - trifluoromethylphenyl			
	2	nitro	butyl	2 – thienyl			
	. 2	nitro	butyl	3 – thienyl			
20	2	nitro	butyl	2 – furyl			
	2	nitro	butyl	3 – furyl			
	2	nitro	butyl	2 – pyridyl			
	2	nitro	butyl	3 – pyridyl			
	2	nitro	butyl	4 – pyridyl			
25	1	nitro	hydroxyethyl	phenyl			
	1	nitro	hydroxyethyl	2 – fluorophenyl			
	1	nitro	hydroxyethyl	3 – fluorophenyl			
	11	nitro	hydroxyethyl	4 – fluorophenyl			
	11	nitro	hydroxyethyl	2, 4 – difluorophenyl			
30	1	nitro	hydroxyethyl	2, 5 – difluorophenyl			
e e	1	nitro	hydroxyethyl	2, 6 - difluorophenyl			
	1	nitro	hydroxyethyl	3, 4 – difluorophenyl			
	1	nitro	hydroxyethyl	3, 5 – difluorophenyl			
35	1	nitro	hydroxyethyl	2 - chlorophenyl			
	1	nitro nitro	hydroxyethyl	3 – chlorophenyl			
	1	nitro	hydroxyethyl hydroxyethyl	4 – chlorophenyl 2, 4 – dichlorophenyl			
	1	nitro	hydroxyethyl	3, 4 – dichlorophenyl			
	1	nitro	hydroxyethyl	2 - bromophenyl			
40	i	nitro	hydroxyethyl	3 – bromophenyl			
	i	nitro	hydroxyethyl	4 – bromophenyl			
	1	nitro	hydroxyethyl	2 – methylphenyl			
	i	nitro	hydroxyethyl	3 – methylphenyl			
46	i	nitro	hydroxyethyl	4 – methylphenyl			
45	1	nitro	hydroxyethyl	2 - methoxyphenyl			
	1	nitro	hydroxyethyl	3 – methoxyphenyl			
	i	nitro	hydroxyethyl	4 - methoxyphenyl			
	i	nitro	hydroxyethyl	2, 3 – dimethoxyphenyl			
50	i	nitro	hydroxyethyl	2, 4 – dimethoxyphenyl			
	1	nitro	hydroxyethyl	3, 4 – dimethoxyphenyl			
	1	nitro	hydroxyethyl	3, 5 – dimethoxyphenyl			
	1	nitro	hydroxyethyl	3, 4 – ( methylenedioxy ) phenyl			
	<b></b>						

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3, 4 – (ethylenedioxy) phenyl 2 – hydroxyphenyl

hydroxyethyl hydroxyethyl

nitro nitro

20

### Table 3(continuation 21)

		Table 5 (continuation 21)		
į	m	R1	R³	Z
,	1	nitro	hydroxyethyl	3 - hydroxyphenyl
	1	nitro	hydroxyethyl	4 - hydroxyphenyl
	1	nitro	hydroxyethyl	2 – aminophenyl
	1	nitro	hydroxyethyl	3 – aminophenyl
0	1	nitro	hydroxyethyl	4 - aminophenyl
	1	nitro	hydroxyethyl	2 - ( methylamino ) phenyl
	1	nitro	hydroxyethyl	3 - ( methylamino ) phenyl
	1	nitro	hydroxyethyl	4 – ( methylamino ) phenyl
	1	nitro	hydroxyethyl	2 - (dimethylamino) phenyl
5	1	nitro	hydroxyethyl	3 – (dimethylamino) phenyl
	1	nitro	hydroxyethyl	4 – (dimethylamino) phenyl
	1	nitro	hydroxyethyl	2 – carboxyphenyl
	1	nitro	hydroxyethyl	3 - carboxyphenyl
	1	nitro	hydroxyethyl	4 - carboxyphenyl
0	1	nitro	hydroxyethyl	2 - ( methylcarbamoyl ) phenyl
	1	nitro	hydroxyethyl	3 - ( methylcarbamoyl ) phenyl
	1	nitro	hydroxyethyl	4 – ( methylcarbamoyl ) phenyl
	1	nitro	hydroxyethyl	2-( methoxycarbonyl ) phenyl
·5	1	nitro	hydroxyethyl	3 - ( methoxycarbonyl ) phenyl
5	1	nitro	hydroxyethyl	4 – ( methoxycarbonyl ) phenyl
	1	nitro	hydroxyethyl	2 – (ethoxycarbonyl) phenyl
	1	nitro	hydroxyethyl	3 - (ethoxycarbonyl) phenyl
	1	nitro	hydroxyethyl	4 – (ethoxycarbonyl) phenyl
no	1	nitro	hydroxyethyl	2 - (acetyloxy) phenyl
	1	nitro	hydroxyethyl	3 - (acetyloxy) phenyl
	1	nitro	hydroxyethyl	4 - ( acetyloxy ) phenyl
	1	nitro	hydroxyethyl	2 - (propionyloxy) phenyl
	1	nitro	hydroxyethyl	3 – ( propionyloxy ) phenyl
15	1	nitro	hydroxyethyl	4 - ( propionyloxy ) phenyl
	1	nitro	hydroxyethyl	2 - trifluoromethylphenyl
	1	nitro	hydroxyethyl	3 - trifluoromethylphenyl
	1	nitro	hydroxyethyl	4 - trifluoromethylphenyl
	1	nitro	hydroxyethyl	2 – thienyl
10	1	nitro	hydroxyethyl	3 - thienyl
•	1	nitro	hydroxyethyl	2 – furyl
	1	nitro	hydroxyethyl	3 – furyl
	1	nitro	hydroxyethyl	2 – pyridyl
re	1	nitro	hydroxyethyl	3 – pyridyl
15	1	nitro	hydroxyethyl	4 – pyridyl
	2	nitro	hydroxyethyl	phenyl
	2	nitro	hydroxyethyl	2 – fluorophenyl
	2	nitro	hydroxyethyl	3 – fluorophenyl
50	2	nitro	hydroxyethyl	4 – fluorophenyl
· <del>-</del>	2	nitro	hydroxyethyl	2, 4 – difluorophenyl
	2	nitro	hydroxyethyl	2, 5 - difluorophenyl
	2	nitro	hydroxyethyl	2, 6 - difluorophenyl
	2	nitro	hydroxyethyl	3, 4 – difluorophenyl
55	2	nitro	hydroxyethyl	3, 5 – difluorophenyl
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# Table 3(continuation 22)

m	R'	R³	Z
2	nitro	hydroxyethyl	2 - chlorophenyl
2	nitro	hydroxyethyl	3 - chlorophenyl
2	nitro	hydroxyethyl	4 - chlorophenyl
2	nitro	hydroxyethyl	2, 4 - dichlorophenyl
2	nitro	hydroxyethyl	3, 4 - dichlorophenyl
2	nitro	hydroxyethyl	2 - bromophenyl
2	nitro	hydroxyethyl	3 – bromophenyl
2	nitro	hydroxyethyl	4 – bromophenyl
2	nitro	hydroxyethyl	2 - methylphenyl
2	nitro	hydroxyethyl	3 - methylphenyl
2	nitro	hydroxyethyl	4 - methylphenyl
2	nitro	hydroxyethyl	2 - methoxyphenyl
2	nitro	hydroxyethyl	3 - methoxyphenyl
2	nitro	hydroxyethyl	4 - methoxyphenyl
2	nitro	hydroxyethyl	2, 3 – dimethoxyphenyl
2	nitro	hydroxyethyl	2, 4 - dimethoxyphenyl
2	nitro	hydroxyethyl	3, 4 - dimethoxyphenyl
2	nitro	hydroxyethyl	3, 5 - dimethoxyphenyl
2	nitro	hydroxyethyl	3, 4 - ( methylenedioxy ) phenyl
2	nitro	hydroxyethyl	3, 4 - ( ethylenedioxy ) phenyl
2	nitro	hydroxyethyl	2 - hydroxyphenyl
2	nitro	hydroxyethyl	3 – hydroxyphenyl
2	nitro	hydroxyethyl	4 – hydroxyphenyl
2	nitro	hydroxyethyl	2 – aminophenyl
2	nitro	hydroxyethyl	3 – aminophenyl
2	nitro	hydroxyethyl	4 – aminophenyl
2	nitro	hydroxyethyl	2 - ( methylamino ) phenyl
2	nitro	hydroxyethyl	3 - ( methylamino ) phenyl
2	nitro	hydroxyethyl	4 – ( methylamino ) phenyl
2	nitro	hydroxyethyl	2 - ( dimethylamino ) phenyl
2	nitro_	hydroxyethyl	3 – ( dimethylamino ) phenyl
2	nitro	hydroxyethyl	4 - ( dimethylamino ) phenyl
2	nitro	hydroxyethyl	2 – carboxyphenyl
2	nitro	hydroxyethyl	3 – carboxyphenyl
2	nitro	hydroxyethyl	4 – carboxyphenyl
2	nitro	hydroxyethyl	2 - ( methylcarbamoyl ) phenyl
2	nitro	hydroxyethyl	3 – ( methylcarbamoyl ) phenyl
2	nitro	hydroxyethyl	4 – ( methylcarbamoyl ) phenyl
2	nitro	hydroxyethyl	2 - ( methoxycarbonyl ) phenyl
2	nitro	hydroxyethyl	3 - ( methoxycarbonyl ) phenyl
2	nitro	hydroxyethyl	4 – (methoxycarbonyl) phenyl
2	nitro	hydroxyethyl	2 – (ethoxycarbonyl) phenyl
2	nitro	hydroxyethyl	3 - (ethoxycarbonyl) phenyl
2	nitro	hydroxyethyl	4 – (ethoxycarbonyl) phenyl
2	nitro	hydroxyethyl	2 – (acetyloxy) phenyl
2	nitro	hydroxyethyl	3 - (acetyloxy) phenyl
2	nitro	hydroxyethyl	4 - (acetyloxy) phenyl
2	nitro	hydroxyethyl	2 – ( propionyloxy ) phenyl

Table 3(continuation 23)

			14010 3(001	
	m	R <sup>1</sup>	R <sup>3</sup>	Z
;	2	nitro	hydroxyethyl	3 - ( propionyloxy ) phenyl
	2	nitro	hydroxyethyl	4 - ( propionyloxy ) phenyl
	2	nitro	hydroxyethyl	2 - trifluoromethylphenyl
	2	nitro	hydroxyethyl	3 - trifluoromethylphenyl
	2	nitro	hydroxyethyl	4 - trifluoromethylphenyl
0	2	nitro	hydroxyethyl	2 – thienyl
	2	nitro	hydroxyethyl	3 – thienyl
	2	nitro	hydroxyethyl	2 – furyl
	2	nitro	hydroxyethyl	3 – furyl
<b>-</b>	2	nitro	hydroxyethyl	2 – pyridyl
5	2	nitro	hydroxyethyl	3 – pyridyl
	2	nitro	hydroxyethyl	4 – pyridyl
			methoxyethyl	phenyl
	1	nitro		2 – fluorophenyl
0	1	nitro	methoxyethyl	3 – fluorophenyl
-	1	nitro	methoxyethyl	4 – fluorophenyl
	1	nitro	methoxyethyl	2,4 – difluorophenyl
	1	nitro	methoxyethyl	2,4 - diffuorophenyl  2,5 - diffuorophenyl
	1	nitro	methoxyethyl	2, 5 – difluorophenyl
25	1	nitro	methoxyethyl methoxyethyl	3, 4 – difluorophenyl
	1	nitro		3, 5 – difluorophenyl
	1	nitro	methoxyethyl methoxyethyl	2 – chlorophenyl
	1	nitro	methoxyethyl	3 – chlorophenyl
	1	nitro nitro		4 – chlorophenyl
30	1	nitro	methoxyethyl methoxyethyl	2, 4 – dichlorophenyl
	1	nitro	methoxyethyl	3, 4 – dichlorophenyl
	i	nitro	methoxyethyl	2 - bromophenyl
	1	nitro	methoxyethyl	3 – bromophenyl
35	<u> </u>	nitro	methoxyethyl	4 - bromophenyl
35	1	nitro	methoxyethyl	2 – methylphenyl
	i	nitro	methoxyethyl	3 – methylphenyl
	i	nitro	methoxyethyl	4 – methylphenyl
	i	nitro	methoxyethyl	2 - methoxyphenyl
<b>\$0</b>	i	nitro	methoxyethyl	3 – methoxyphenyl
	1	nitro	methoxyethyl	4 - methoxyphenyl
	1	nitro	methoxyethyl	2, 3 – dimethoxyphenyl
	<del>  i                                   </del>	nitro	methoxyethyl	2, 4 – dimethoxyphenyl
	1	nitro	methoxyethyl	3, 4 - dimethoxyphenyl
45	1	nitro	methoxyethyl	3, 5 – dimethoxyphenyl
	F 1	nitro	methoxyethyl	3, 4 – ( methylenedioxy ) phenyl
	1	nitro	methoxyethyl	3, 4 – (ethylenedioxy) phenyl
	1	nitro	methoxyethyl	2 – hydroxyphenyl
	1	nitro	methoxyethyl	3 – hydroxyphenyl
50			methoxyethyl	4 – hydroxyphenyl
	$\frac{1}{1}$	nitro nitro	methoxyethyl	2 – aminophenyl
	)			
	1	nitro	methoxyethyl	3 – aminophenyl
E E	1_1_	nitro	methoxyethyl	4 – aminophenyl

Table 3(continuation 24)

			ntinuation 24)	
	m	R¹	R³	Z
5	1	nitro	methoxyethyl	2 - ( methylamino ) phenyl
	1	nitro	methoxyethyl	3 - ( methylamino ) phenyl
		nitro	methoxyethyl	4 - ( methylamino ) phenyl
	1	nitro	methoxyethyl	2 - ( dimethylamino ) phenyl
10	1	nitro	methoxyethyl	3 - ( dimethylamino ) phenyl
10	1	nitro	methoxyethyl	4 - ( dimethylamino ) phenyl
	1	nitro	methoxyethyl	2 – carboxyphenyl
	1	nitro	methoxyethyl	3 – carboxyphenyl
	1	nitro	methoxyethyl	4 – carboxyphenyl
15	1	nitro	methoxyethyl	2 - ( methylcarbamoyl ) phenyl
	1	nitro	methoxyethyl	3 - ( methylcarbamoyl ) phenyl
	1	nitro	methoxyethyl	4 - ( methylcarbamoyl ) phenyl
	1	nitro	methoxyethyl	2 - ( methoxycarbonyl ) phenyl
	1	nitro	methoxyethyl	3 - ( methoxycarbonyl ) phenyl
20	1	nitro	methoxyethyl	4-( methoxycarbonyl ) phenyl
	1	nitro	methoxyethyl	2 – (ethoxycarbonyl) phenyl
	1	nitro_	methoxyethyl	3 – (ethoxycarbonyl) phenyl
	1	nitro	methoxyethyl	4 – ( ethoxycarbonyl ) phenyl
25	1	nitro	methoxyethyl	2 - ( acetyloxy ) phenyl
	1	nitro	methoxyethyl	3 - (acetyloxy) phenyl
	1	nitro	methoxyethyl	4 - ( acetyloxy ) phenyl
	1	nitro	methoxyethyl	2 – ( propionyloxy ) phenyl
	1	nitro	methoxyethyl	3 – ( propionyloxy ) phenyl
30	1	nitro	methoxyethyl	4 – (propionyloxy) phenyl
	1	nitro	methoxyethyl	2 - trifluoromethylphenyl
	1	nitro	methoxyethyl methoxyethyl	3 - trifluoromethylphenyl 4 - trifluoromethylphenyl
	1	nitro nitro	methoxyethyl	2 – thienyl
35	1	nitro	methoxyethyl	3 – thienyl
00	$\frac{1}{1}$	nitro	methoxyethyl	2 – furyl
	1	nitro	methoxyethyl	3 – furyl
	1	nitro	methoxyethyl	2 – pyridyl
	1	nitro	methoxyethyl	3 – pyridyl
40	1	nitro	methoxyethyl	4 – pyridyl
	2	nitro	methoxyethyl	phenyl
	2	nitro	methoxyethyl	2 – fluorophenyl
	2	nitro	methoxyethyl	3 – fluorophenyl
45	2	nitro	methoxyethyl	4 – fluorophenyl
45	2	nitro	methoxyethyl	2, 4 – difluorophenyl
	2	nitro	methoxyethyl	2, 5 - difluorophenyl
	2	nitro	methoxyethyl	2, 6 - difluorophenyl
	2	nitro	methoxyethyl	3, 4 - difluorophenyl
50	2	nitro	methoxyethyl	3, 5 - difluorophenyl
	2	nitro	methoxyethyl	2 - chlorophenyl
	2	nitro	methoxyethyl	3 – chlorophenyl
	2	nitro	methoxyethyl	4 - chlorophenyl
	2	nitro	methoxyethyl	2, 4 - dichlorophenyl
55	2	nitro	methoxyethyl	3, 4 - dichlorophenyl

75

# Table 3(continuation 25)

m R¹ R³ Z  nitro methoxyethyl 2 - bromophenyl  nitro methoxyethyl 3 - bromophenyl  nitro methoxyethyl 3 - methylphenyl  nitro methoxyethyl 3 - methylphenyl  nitro methoxyethyl 3 - methylphenyl  nitro methoxyethyl 4 - methylphenyl  nitro methoxyethyl 3 - methylphenyl  nitro methoxyethyl 3 - methoxyphenyl  nitro methoxyethyl 3 - methoxyphenyl  nitro methoxyethyl 3 - methoxyphenyl  nitro methoxyethyl 2, 3 - dimethoxyphenyl  nitro methoxyethyl 3, 4 - dimethoxyphenyl  nitro methoxyethyl 3, 4 - dimethoxyphenyl  nitro methoxyethyl 3, 5 - dimethoxyphenyl  nitro methoxyethyl 3, 4 - (methylenedioxy phenyl  nitro methoxyethyl 3, 4 - (methylenedioxy phenyl  nitro methoxyethyl 3, 4 - (methylenedioxy phenyl  nitro methoxyethyl 3 - hydroxyphenyl  nitro methoxyethyl 3 - hydroxyphenyl  nitro methoxyethyl 3 - hydroxyphenyl  nitro methoxyethyl 4 - hydroxyphenyl  nitro methoxyethyl 2 - mirophenyl  nitro methoxyethyl 3 - aminophenyl  nitro methoxyethyl 4 - methylamino phenyl  nitro methoxyethyl 3 - aminophenyl  nitro methoxyethyl 3 - (methylamino) phenyl  nitro				
2 nitro methoxyethyl 3 - bromophenyl 2 nitro methoxyethyl 4 - bromophenyl 2 nitro methoxyethyl 2 - methylphenyl 2 nitro methoxyethyl 3 - methylphenyl 2 nitro methoxyethyl 4 - methylphenyl 2 nitro methoxyethyl 4 - methylphenyl 2 nitro methoxyethyl 2 - methoxyphenyl 2 nitro methoxyethyl 3 - methoxyphenyl 2 nitro methoxyethyl 4 - methoxyphenyl 2 nitro methoxyethyl 2, 3 - dimethoxyphenyl 2 nitro methoxyethyl 2, 4 - dimethoxyphenyl 2 nitro methoxyethyl 3, 4 - dimethoxyphenyl 2 nitro methoxyethyl 3, 4 - dimethoxyphenyl 2 nitro methoxyethyl 3, 4 - (methylenedioxy) phenyl 2 nitro methoxyethyl 3, 4 - (ethylenedioxy) phenyl 2 nitro methoxyethyl 3 - bydroxyphenyl 2 nitro methoxyethyl 3 - bydroxyphenyl 2 nitro methoxyethyl 4 - hydroxyphenyl 2 nitro methoxyethyl 3 - aminophenyl 2 nitro methoxyethyl 3 - aminophenyl 3 - initro methoxyethyl 4 - minophenyl 3 - mitro methoxyethyl 3 - aminophenyl 4 nitro methoxyethyl 3 - aminophenyl 5 nitro methoxyethyl 4 - minophenyl 5 nitro methoxyethyl 5 - (methylamino) phenyl 6 nitro methoxyethyl 6 - (methylamino) phenyl 7 nitro methoxyethyl 7 - (methylamino) phenyl 8 nitro methoxyethyl 9 - (methylamino) phenyl 9 nitro methoxyethyl 9 - (methylamino) phenyl 9 nitro methoxyethyl 10 - (methylamino) phenyl 10 nitro methoxyethyl 10 - (methylamino) phenyl 11 nitro methoxyethyl 11 - (methylamino) phenyl 12 nitro methoxyethyl 11 - (methylamino) phenyl 13 nitro methoxyethyl 11 - (methylamino) phenyl 14 nitro methoxyethyl 15 - (methylamino) phenyl 15 nitro methoxyethyl 16 - (methylamino) phenyl 17 nitro methoxyethyl 17 - (methylamino) phenyl 18 nitro methoxyethyl 19 - (methylamino) phenyl 19 nitro methoxyethyl 2 - (methylamino) phenyl 2 nitro methoxyethyl 3 - (methylamino) phenyl 2 nitro methoxyethyl 4 - (methylamino) phenyl 2 nitro methoxyethyl 5 - (methylamino) phenyl 2 nitro methoxyethyl 6 - (methylamino) phenyl 2 nitro methoxyethyl 7 - (methoxyearbonyl) phenyl 2 nitro methoxyethyl 8 - (methoxyearbonyl) phenyl 2 nitro methoxyethyl 9 - (methoxyearbonyl) phenyl 2 nitro methoxyethyl 19 - (methoxyearbon	m	R <sup>1</sup>	R <sup>3</sup>	Z
2 nitro methoxyethyl 2 - methylphenyl 2 nitro methoxyethyl 3 - methylphenyl 2 nitro methoxyethyl 3 - methylphenyl 2 nitro methoxyethyl 4 - methylphenyl 2 nitro methoxyethyl 2 - methoxyphenyl 2 nitro methoxyethyl 3 - methoxyphenyl 2 nitro methoxyethyl 4 - methoxyphenyl 2 nitro methoxyethyl 2, - dimethoxyphenyl 2 nitro methoxyethyl 2, - dimethoxyphenyl 2 nitro methoxyethyl 3, 4 - dimethoxyphenyl 2 nitro methoxyethyl 3, 5 - dimethoxyphenyl 2 nitro methoxyethyl 3, 5 - dimethoxyphenyl 2 nitro methoxyethyl 3, 4 - (ethylenedioxy) phenyl 2 nitro methoxyethyl 3, 4 - (ethylenedioxy) phenyl 2 nitro methoxyethyl 3, 4 - (ethylenedioxy) phenyl 2 nitro methoxyethyl 2 - hydroxyphenyl 3 - hydroxyphenyl 2 nitro methoxyethyl 3 - hydroxyphenyl 2 nitro methoxyethyl 4 - hydroxyphenyl 2 nitro methoxyethyl 3 - minophenyl 2 nitro methoxyethyl 3 - aminophenyl 2 nitro methoxyethyl 4 - methylamino) phenyl 3 nitro methoxyethyl 4 - (methylamino) phenyl 4 nitro methoxyethyl 3 - (methylamino) phenyl 4 nitro methoxyethyl 3 - (dimethylamino) phenyl 4 nitro methoxyethyl 4 - (methylamino) phenyl 4 nitro methoxyethyl 3 - (dimethylamino) phenyl 4 nitro methoxyethyl 4 - (methylamino) phenyl 4 nitro methoxyethyl 5 - (dimethylamino) phenyl 4 nitro methoxyethyl 4 - (methylamino) phenyl 4 nitro methoxyethyl 5 - (dimethylamino) phenyl 4 nitro methoxyethyl 6 - (methylamino) phenyl 5 nitro methoxyethyl 7 - (methylamino) phenyl 5 nitro methoxyethyl 8 - (methylamino) phenyl 5 nitro methoxyethyl 9 - (methylamino) phenyl 5 nitro methoxyethyl 10 - (methylamino) phenyl 6 nitro methoxyethyl 10 - (methylamino) phenyl 6 nitro methoxyethyl 10 - (methylamino) phenyl 6 nitro methoxyethyl 10 - (methylamino) phenyl 7 nitro methoxyethyl 10 - (methylamino) phenyl 8 nitro methoxyethyl 10 - (methoxyethyl) 10 - (methoxy	2	nitro	methoxyethyl	2 – bromophenyl
2 nitro methoxyethyl 3 - methylphenyl 2 nitro methoxyethyl 3 - methylphenyl 2 nitro methoxyethyl 4 - methylphenyl 2 nitro methoxyethyl 2 - methoxyphenyl 2 nitro methoxyethyl 3 - methoxyphenyl 2 nitro methoxyethyl 4 - methoxyphenyl 2 nitro methoxyethyl 2, 3 - dimethoxyphenyl 2 nitro methoxyethyl 2, 3 - dimethoxyphenyl 2 nitro methoxyethyl 3, 4 - dimethoxyphenyl 2 nitro methoxyethyl 3, 5 - dimethoxyphenyl 2 nitro methoxyethyl 3, 5 - dimethoxyphenyl 2 nitro methoxyethyl 3, 4 - (methylenedioxy) phenyl 2 nitro methoxyethyl 3, 4 - (ethylenedioxy) phenyl 2 nitro methoxyethyl 3 - hydroxyphenyl 2 nitro methoxyethyl 3 - hydroxyphenyl 2 nitro methoxyethyl 4 - hydroxyphenyl 2 nitro methoxyethyl 3 - aminophenyl 2 nitro methoxyethyl 4 - minophenyl 2 nitro methoxyethyl 3 - aminophenyl 2 nitro methoxyethyl 4 - aminophenyl 2 nitro methoxyethyl 2 - (methylamino) phenyl 2 nitro methoxyethyl 2 - (methylamino) phenyl 3 nitro methoxyethyl 3 - (methylamino) phenyl 4 nitro methoxyethyl 4 - (methylamino) phenyl 2 nitro methoxyethyl 3 - (dimethylamino) phenyl 3 nitro methoxyethyl 4 - (methylamino) phenyl 4 nitro methoxyethyl 3 - (dimethylamino) phenyl 5 nitro methoxyethyl 4 - (methylamino) phenyl 5 nitro methoxyethyl 5 - (amethylamino) phenyl 5 nitro methoxyethyl 6 - (methylamino) phenyl 6 nitro methoxyethyl 7 - (methylamino) phenyl 6 nitro methoxyethyl 8 - (methylamino) phenyl 6 nitro methoxyethyl 9 - (methylamino) phenyl 6 nitro methoxyethyl 10 - (methylamino) phenyl 7 nitro methoxyethyl 10 - (methylamino) phenyl 8 nitro methoxyethyl 10 - (methylamino) phenyl 9 nitro methoxyethyl 10 - (methylamino) phenyl 11 nitro methoxyethyl 11 - (methylamino) phenyl 12 nitro methoxyethyl 12 - (methylamino) phenyl 13 - (methylamino) phenyl 14 - (methylamino) phenyl 15 nitro methoxyethyl 15 - (methoxyearbonyl) phenyl 16 nitro methoxyethyl 16 - (methylamino) phenyl 17 nitro methoxyethyl 17 - (methylamino) phenyl 18 nitro methoxyethyl 19 - (methylamino) phenyl 19 nitro methoxyethyl 2 - (methylamino) phenyl 2 nitro methoxyethyl 3 - (methylamino) phenyl	2	nitro	methoxyethyl	3 - bromophenyl
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nitro methoxyethyl 2 - (methoxycarbonyl) phenyl mitro methoxyethyl 3 - (methoxycarbonyl) phenyl mitro methoxyethyl 4 - (methoxycarbonyl) phenyl mitro methoxyethyl 2 - (ethoxycarbonyl) phenyl mitro methoxyethyl 3 - (ethoxycarbonyl) phenyl mitro methoxyethyl 4 - (ethoxycarbonyl) phenyl mitro methoxyethyl 2 - (acetyloxy) phenyl mitro methoxyethyl 3 - (acetyloxy) phenyl mitro methoxyethyl 4 - (acetyloxy) phenyl mitro methoxyethyl 2 - (propionyloxy) phenyl mitro methoxyethyl 3 - (propionyloxy) phenyl mitro methoxyethyl 3 - (propionyloxy) phenyl mitro methoxyethyl 4 - (propionyloxy) phenyl mitro methoxyethyl 2 - trifluoromethylphenyl mitro methoxyethyl 3 - trifluoromethylphenyl				
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2 nitro methoxyethyl 4-(ethoxycarbonyl) phenyl 2 nitro methoxyethyl 2-(acetyloxy) phenyl 2 nitro methoxyethyl 3-(acetyloxy) phenyl 2 nitro methoxyethyl 4-(acetyloxy) phenyl 2 nitro methoxyethyl 2-(propionyloxy) phenyl 2 nitro methoxyethyl 3-(propionyloxy) phenyl 2 nitro methoxyethyl 4-(propionyloxy) phenyl 2 nitro methoxyethyl 2-trifluoromethylphenyl 2 nitro methoxyethyl 3-trifluoromethylphenyl 3 nitro methoxyethyl 3-trifluoromethylphenyl				
2 nitro methoxyethyl 2-(acetyloxy) phenyl 2 nitro methoxyethyl 3-(acetyloxy) phenyl 2 nitro methoxyethyl 4-(acetyloxy) phenyl 2 nitro methoxyethyl 2-(propionyloxy) phenyl 2 nitro methoxyethyl 3-(propionyloxy) phenyl 2 nitro methoxyethyl 4-(propionyloxy) phenyl 2 nitro methoxyethyl 2-trifluoromethylphenyl 2 nitro methoxyethyl 3-trifluoromethylphenyl	2			
2 nitro methoxyethyl 3-(acetyloxy) phenyl 2 nitro methoxyethyl 4-(acetyloxy) phenyl 2 nitro methoxyethyl 2-(propionyloxy) phenyl 2 nitro methoxyethyl 3-(propionyloxy) phenyl 2 nitro methoxyethyl 4-(propionyloxy) phenyl 2 nitro methoxyethyl 2-trifluoromethylphenyl 2 nitro methoxyethyl 3-trifluoromethylphenyl	2			
2 nitro methoxyethyl 4 - (acetyloxy) phenyl 2 nitro methoxyethyl 2 - (propionyloxy) phenyl 2 nitro methoxyethyl 3 - (propionyloxy) phenyl 2 nitro methoxyethyl 4 - (propionyloxy) phenyl 2 nitro methoxyethyl 2 - trifluoromethylphenyl 2 nitro methoxyethyl 3 - trifluoromethylphenyl				
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2 nitro methoxyethyl 3 - (propionyloxy) phenyl 2 nitro methoxyethyl 4 - (propionyloxy) phenyl 2 nitro methoxyethyl 2 - trifluoromethylphenyl 2 nitro methoxyethyl 3 - trifluoromethylphenyl				
2 nitro methoxyethyl 4 – (propionyloxy) phenyl 2 nitro methoxyethyl 2 - trifluoromethylphenyl 2 nitro methoxyethyl 3 - trifluoromethylphenyl				
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2 nitro methoxyethyl 3 - trifluoromethylphenyl				
Z   nitro   metnoxyetnyi   4 - tritluoromethyiphenyi				
	2	nitro	methoxyethyl	4 - tritiuoromethylphenyl

Table 3(continuation 26)

m	R¹	R³	Z
2	nitro	methoxyethyl	2 – thienyl
2	nitro	methoxyethyl	3 – thienyl
2	nitro	methoxyethyl	2 – furyl
2	nitro	methoxyethyl	3 – furyl
2	nitro	methoxyethyl	2 – pyridyl
2	nitro	methoxyethyl	· 3 – pyridyl
2	nitro	methoxyethyl	4 – pyridyl
1	nitro	aminoethyl	phenyl
	nitro	aminoethyl	2 – fluorophenyl
1.	nitro	aminoethyl	3 – fluorophenyl
1	nitro	aminoethyl	4 – fluorophenyl
i	nitro	aminoethyl	2, 4 - difluorophenyl
i	nitro	aminoethyl	2, 5 – difluorophenyl
i	nitro	aminoethyl	2, 6 – difluorophenyl
i	nitro	aminoethyl	3, 4 – difluorophenyl
Hi	nitro	aminoethyl	3, 5 – difluorophenyl
1	nitro	aminoethyl	2 - chlorophenyl
1	nitro	aminoethyl	3 - chlorophenyl
1	nitro	aminoethyl	4 – chlorophenyl
i	nitro	aminoethyl	2, 4 - dichlorophenyl
1	nitro	aminoethyl	3, 4 – dichlorophenyl
1	nitro	aminoethyl	2 – bromophenyl
i	nitro -	aminoethyl	3 – bromophenyl
-   -	nitro	aminoethyl	4 – bromophenyl
i	nitro	aminoethyl	2 – methylphenyl
i	nitro	aminoethyl	3 - methylphenyl
1	nitro	aminoethyl	4 - methylphenyl
1	nitro	aminoethyl	2 - methoxyphenyl
1	nitro	aminoethyl	3 - methoxyphenyl
. 1	nitro	aminoethyl	4 - methoxyphenyl
1	nitro	aminoethyl	2, 3 - dimethoxyphenyl
1	nitro	aminoethyl	2, 4 - dimethoxyphenyl
1	nitro	aminoethyl	3, 4 - dimethoxyphenyl
1	nitro	aminoethyl	3, 5 - dimethoxyphenyl
1	nitro	aminoethyl	3, 4 - ( methylenedioxy ) phenyl
1	nitro	aminoethyl	3, 4 - ( ethylenedioxy ) phenyl
1	nitro	aminoethyl	2 – hydroxyphenyl
1	nitro	aminoethyl	3 - hydroxyphenyl
1	nitro .	aminoethyl	4 - hydroxyphenyl
1	nitro	aminoethyl	2 - aminophenyl
1	nitro	aminoethyl	3 - aminophenyl
1	nitro	aminoethyl	4 – aminophenyl
i	nitro	aminoethyl	2 - ( methylamino ) phenyl
1	nitro	aminoethyl	3 - (methylamino) phenyl
1	nitro	aminoethyl	4 – (methylamino) phenyl
	· nitro	aminoethyl	2 - (dimethylamino) phenyl
1	nitro	aminoethyl	3 – (dimethylamino) phenyl
1	nitro	aminoethyl	4 – (dimethylamino) phenyl
	1 11110	I ammoenty!	4- ( difficulty amino ) phenyl

Table 3(continuation 27)

m	R¹	R <sup>3</sup>	Z
1	nitro	aminoethyl	2 – carboxyphenyl
1	nitro	aminoethyl	3 – carboxyphenyl
	nitro	aminoethyl	4 - carboxyphenyl
1	nitro	aminoethyl	2 – ( methylcarbamoyl ) phenyl
1	nitro	aminoethyl	3 - ( methylcarbamoyl ) phenyl
li	nitro	aminoethyl	4 – ( methylcarbamoyl ) phenyl
l-i-	nitro	aminoethyl	2 - ( methoxycarbonyl ) phenyl
$\frac{1}{1}$	nitro	aminoethyl	3 - (methoxycarbonyl) phenyl
1	nitro	aminoethyl	4 – ( methoxycarbonyl ) phenyl
1	nitro	aminoethyl	2 – (ethoxycarbonyl) phenyl
1	nitro	aminocthyl	3 – (ethoxycarbonyl) phenyl
1		aminoethyl	4 – (ethoxycarbonyl) phenyl
1	nitro nitro	aminoethyl	
			2 - (acetyloxy) phenyl
1	nitro	aminoethyl	3 – (acetyloxy) phenyl
1	nitro	aminoethyl	4 – (acetyloxy) phenyl
1	nitro	aminoethyl	2 – (propionyloxy) phenyl
1	nitro	aminoethyl	3 – (propionyloxy) phenyl
1	nitro	aminoethyl	4 – (propionyloxy) phenyl
1	nitro	aminoethyl	2 - trifluoromethylphenyl
1	nitro	aminoethyl	3 - trifluoromethylphenyl
1	nitro	aminoethyl	4 - trifluoromethylphenyl
	nitro	aminoethyl	2 – thienyl
1	nitro	aminoethyl	3 – thienyl
1	nitro	aminoethyl	2 – furyl
1	nitro	aminoethyl	3 – furyl
1	nitro	aminoethyl	2 – pyridyl
	nitro	aminoethyl	3 – pyridyl
1	nitro	aminoethyl	4 – pyridyl
2	nitro	aminoethyl	phenyl
2	nitro	aminoethyl	2 – fluorophenyl
2	nitro	aminoethyl	3 – fluorophenyl
2	nitro	aminoethyl	4 – fluorophenyl
	nitro nitro	aminoethyl	2, 4 - difluorophenyl
2 2 2 2		aminoethyl	2, 5 – difluorophenyl
	nitro	aminoethyl	2, 6 – difluorophenyl
2	nitro	aminoethyl	3, 4 – difluorophenyl
	nitro	aminoethyl	3, 5 – difluorophenyl
2	nitro	aminoethyl	2 – chlorophenyl
2	nitro	aminoethyl	3 – chlorophenyl
2	nitro	aminoethyl	4 – chlorophenyl
2 2	nitro	aminoethyl	2, 4 – dichlorophenyl
2	nitro	aminoethyl	3, 4 – dichlorophenyl
2	nitro	aminoethyl	2 – bromophenyl
2	nitro	aminoethyl	3 – bromophenyl
2	nitro	aminoethyl	4 - bromophenyl
2	nitro	aminoethyl	2 – methylphenyl
2	nitro	aminoethyl	3 – methylphenyl
2	nitro	aminoethyl	4 – methylphenyl

# Table 3(continuation 28)

m	R <sup>1</sup>	R3	Z
2	nitro	aminoethyl	2 - methoxyphenyl
2	nitro	aminoethyl	3 - methoxyphenyl
2	nitro	aminoethyl	4 - methoxyphenyl
2	nitro	aminoethyl	2, 3 - dimethoxyphenyl
2	nitro	aminoethyl	2, 4 - dimethoxyphenyl
2	nitro	aminoethyl	3, 4 - dimethoxyphenyl
2	nitro	aminoethyl	3, 5 - dimethoxyphenyl
2	nitro	aminoethyl	3, 4 - ( methylenedioxy ) phenyl
2	nitro	aminoethyl	3, 4 - (ethylenedioxy) phenyl
2	nitro	aminoethyl	2 - hydroxyphenyl
2	nitro	aminoethyl	3 - hydroxyphenyl
2	nitro	aminoethyl	4 - hydroxyphenyl
2	nitro	aminoethyl	2 - aminophenyl
2	nitro	aminoethyl	· 3 – aminophenyl
2	nitro	aminoethyl	4 – aminophenyl
2	nitro	aminoethyl	2 - ( methylamino ) phenyl
2	nitro	aminoethyl	3 - ( methylamino ) phenyl
2	nitro	aminoethyl	4 - ( methylamino ) phenyl
2	nitro	aminoethyl	2 - ( dimethylamino ) phenyl
2	nitro	aminoethyl	3 - ( dimethylamino ) phenyl
2	nitro	aminoethyl	4 - ( dimethylamino ) phenyl
2	nitro	aminoethyl	2 – carboxyphenyl
2	nitro	aminoethyl	3 - carboxyphenyl
2	nitro	aminoethyl	4 - carboxyphenyl
2	nitro	aminoethyl	2 - ( methylcarbamoyl ) phenyl
2	nitro	aminoethyl	3 - ( methylcarbamoyl ) phenyl
2	nitro	aminoethyl	4 – ( methylcarbamoyl ) phenyl
.5	nitro	aminoethyl	2-( methoxycarbonyl ) phenyl
2	nitro	aminoethyl	3 - ( methoxycarbonyl ) phenyl
2	nitro	aminoethyl	4 - ( methoxycarbonyl ) phenyl
2	nitro	aminoethyl	2 - (ethoxycarbonyl) phenyl
2	nitro	aminoethyl	3 - (ethoxycarbonyl) phenyl
2	nitro	aminoethyl	4 - (ethoxycarbonyl) phenyl
2	nitro	aminoethyl	2 – ( acetyloxy ) phenyl
2	nitro	aminoethyl	3 – (acetyloxy) phenyl
2	nitro	aminoethyl aminoethyl	4 – (acetyloxy) phenyl
2	nitro nitro	aminoethyl	2 - (propionyloxy) phenyl
2			3 - (propionyloxy) phenyl
2	nitro	aminoethyl aminoethyl	4 - ( propionyloxy ) phenyl
	nitro		2 - trifluoromethylphenyl
2	nitro	aminoethyl	3 - trifluoromethylphenyl
2	nitro	aminoethyl	4 - trifluoromethylphenyl
2	nitro	aminoethyl	2 – thienyl
	nitro	aminoethyl	3 – thienyl
2	nitro	aminoethyl	2 – furyl
2	nitro	aminoethyl	3 – furyl
2	nitro	aminoethyl	2 – pyridyl
2	nitro	aminoethyl	3 – pyridyl

...

Table 3(continuation 29)

m	R1	R³	Z
2	nitro	aminoethyl	4 – pyridyl
1	nitro	formyl	phenyl
1	nitro	formyl	2 – fluorophenyl
1	nitro	formyl	3 – fluorophenyl
1	nitro	formyl	4 – fluorophenyl
1	nitro	formyl	2, 4 - difluorophenyl
1	nitro	formyl	2, 5 – difluorophenyl
1	nitro	formyl	2, 6 - difluorophenyl
i	nitro	formyl	3, 4 – difluorophenyl
i	nitro	formyl	3, 5 – difluorophenyl
1	nitro	formyl	2 – chlorophenyl
1	nitro	formyl	3 – chlorophenyl
i	nitro	formyl	4 – chlorophenyl
	nitro	formyl	2, 4 – dichlorophenyl
1	nitro	formyl	3, 4 – dichlorophenyl
1	nitro	formyl	2 – bromophenyl
1	nitro	formyl	3 – bromophenyl
1	nitro	formyl	4 - bromophenyl
1	nitro	formyl	2 - methylphenyl
1	nitro	formyl	3 - methylphenyl
1	nitro	formyl	4 - methylphenyl
1	nitro	formyl	2 - methoxyphenyl
1	nitro	formyl	3 - methoxyphenyl
1	nitro	formyl	4 - methoxyphenyl
1	nitro	formyl	2, 3 - dimethoxyphenyl
1	nitro	formyl	2, 4 - dimethoxyphenyl
1	nitro	formyl	3, 4 - dimethoxyphenyl
1	nitro	formyl	3, 5 - dimethoxyphenyl
1	nitro	formyl	3, 4 - ( methylenedioxy ) phenyl
1	nitro	formyl	3, 4 - ( ethylenedioxy ) phenyl
1	nitro	formyl	2 - hydroxyphenyl
1	nitro	formyl	3 – hydroxyphenyl
1	nitro	formyl	4 – hydroxyphenyl
1	nitro	formyl	2 – aminophenyl
1	. nitro	formyl	3 – aminophenyl
1	nitro	formyl	4 – aminophenyl
1	nitro	formyl	2 - ( methylamino ) phenyl
-1	nitro	formyl	3 - ( methylamino ) phenyl
1	nitro	formyl	4 – ( methylamino ) phenyl
1	nitro	formyl	2 – ( dimethylamino ) phenyl
1	nitro	formyl	3 – ( dimethylamino ) phenyl
1	nitro	formyl	4 - ( dimethylamino ) phenyl
1	nitro	formyl	2 – carboxyphenyl
1	nitro	formyl	3 - carboxyphenyl
1	nitro	formyl	4 carboxyphenyl
1	nitro	formyl	2 - ( methylcarbamoyl ) phenyl
1	nitro	formyl	3 - ( methylcarbamoyl ) phenyl
1	nitro	formyl	4 - ( methylcarbamoyl ) phenyl
<del></del>			

# Table 3(continuation 30)

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m	R¹	R³	Z
1	nitro	formyl	2 - ( methoxycarbonyl ) phenyl
1	nitro	formyl	3 - ( methoxycarbonyl ) phenyl
1	nitro	formyl	4 - ( methoxycarbonyl ) phenyl
1	nitro	formyl	2 - ( ethoxycarbonyl ) phenyl
1	nitro	formyl	3 - (ethoxycarbonyl) phenyl
1	nitro	formyl	4 ~ (ethoxycarbonyl) phenyl
1	nitro	formyl	2 - ( acetyloxy ) phenyl
1	nitro	formyl	3 - (acetyloxy) phenyl
1	nitro	formyl	4 - ( acetyloxy ) phenyl
1	nitro	formyl	2 – ( propionyloxy ) phenyl
1	nitro	formyl	3 - (propionyloxy) phenyl
1	nitro	formyl	4 – ( propionyloxy ) phenyl
1	nitro	formyl	2 - trifluoromethylphenyl
1	nitro	formyl	3 - trifluoromethylphenyl
1	nitro	formyl	4 - trifluoromethylphenyl
1	nitro	formyl	2 – thienyl
1	nitro	formyl	3 - thienyl
1	nitro	formyl	2 – furyl
1	nitro	formyl	3 – furyl
1	nitro	formyl	2 – pyridyl
1	nitro	formyl	3 – pyridyl
1	nitro	formyl	4 – pyridyl
2	nitro	formyl	pheayl
2	nitro	formyl	2 – fluorophenyl
2	nitro	formyl	3 – fluorophenyl
	nitro	formyl	4 — fluorophenyl
2	nitro	formyl	2, 4 - difluorophenyl
2	nitro	formyl	2, 5 – difluorophenyl
2	nitro	formyl	2, 6 - difluorophenyl
2	nitro	formyl	3, 4 - difluorophenyl
2	nitro	formyl	3, 5 – difluorophenyl
2	nitro	formyl	2 – chlorophenyl
2	nitro	formyl	3 – chlorophenyl
2	nitro	formyl	4 – chlorophenyl
2 2 2	nitro	formyl	2, 4 – dichlorophenyl
2	nitro	formyl	3, 4 – dichlorophenyl
	nitro	formyl	2 – bromophenyl
2	nitro	formyl	3 - bromophenyl .
	nitro	formyl	4 - bromophenyl
2	nitro	formyl	2 – methylphenyl
2	nitro	formyl	3 – methylphenyl
	nitro	formyl	4 – methylphenyl
2	nitro	formyl	2 - methoxyphenyl
2	nitro	formyl	3 – methoxyphenyl
2	nitro	formyl	4 – methoxyphenyl
2	nitro	formyl	2, 3 – dimethoxyphenyl
2	nitro	formyl	2, 4 - dimethoxyphenyl
2	nitro	formyl	3, 4 – dimethoxyphenyl

# Table 3(continuation 31)

ſ	m	R <sup>1</sup>	R <sup>3</sup>	Z
5	2	nitro	formyl	3, 5 - dimethoxyphenyl
}	2	nitro	formyl	3, 4 - ( methylenediaxy ) phenyl
ŀ	2	nitro	formyl	3, 4 - (cthylenedioxy) phenyl
ł	2	nitro	formyl	2 - hydroxyphenyl
ł	2	nitro	formyl	3 - hydroxyphenyl
0	2	nitro	formyl	4 – hydroxyphenyl
ł	2	nitro	formyl	2 – aminophenyl
ł	2	nitro	formyl	3 – aminophenyl
İ	2	nitro	formyl	4 – aminophenyl
	2	nitro	formyl	2 - ( methylamino ) phenyl
15	2	nitro	formyl	3 - ( methylamino ) phenyl
ŀ	2	nitro	formyl	4 - ( methylamino ) phenyl
	2	nitro	formyl	2 - ( dimethylamino ) phenyl
ł	2	nitro	formyl	3 - ( dimethylamino ) phenyl
20	2	nitro	formyl	4 - (dimethylamino) phenyl
	2	nitro	formyl	2 – carboxyphenyl
	2	nitro	formyl	3 – carboxyphenyl
	2	nitro	formyl	4 – carboxyphenyl
	2	nitro	formyl	2 – ( methylcarbamoyl ) phenyl
25	2	nitro	formyl	3 - ( methylcarbamoyl ) phenyl
	2	nitro	formyl	4 - ( methylcarbamoyl ) phenyl
	2	nitro	formyl	2 - ( methoxycarbonyl ) phenyl
	2	nitro	formyl	3 - ( methoxycarbonyl ) phenyl
	2	nitro	formyl	4 - ( methoxycarbonyl ) phenyl
30	2	nitro	formyl	2 - (ethoxycarbonyl) phenyl
Ì	2	nitro	formyl	3 - (ethoxycarbonyl) phenyl
	2	nitro	formyl	4 – (ethoxycarbonyl) phenyl
	2	nitro	formyl	2 – (acetyloxy) phenyl
35	2	nitro	formyl	3 - (acetyloxy) phenyl
<i>55</i>	2	nitro	formyl	4 - ( acetyloxy ) phenyl 2 - ( propionyloxy ) phenyl
	2	nitro	formyl formyl	3 – (propionyloxy) phenyl
	2	nitro nitro	formyl	4 – (propionyloxy) phenyl
•	2	nitro	formyl	2 - trifluoromethylphenyl
40	2	nitro	formyl	3 - trifluoromethylphenyl
	2	nitro	formyl	4 - trifluoromethylphenyl
	2	nitro	formyl	2 – thienyl
	2	nitro	formyl	3 – thienyl
	2	nitro	formyl	2 – furyl
45	2	nitro	formyl	3 – furyl
	2	nitro	formyl	2 – pyridyl
	2	nitro	formyl	3 – pyridyl
	2	nitro	formyl	4 – pyridyl
50	1	nitro	acetyl	phenyl
50	1	nitro	acetyl	2 – fluorophenyl
	1	nitro	acetyl	3 – fluorophenyl
	1	nitro	acetyl	4 – fluorophenyl
	1	nitro	acetyl	2, 4 – difluorophenyl
		1		

# Table 3(continuation 32)

m	R¹	R <sup>3</sup>	Z
1	nitro	acetyl	2, 5 – difluorophenyl
<b> </b>	nitro	acetyl	2, 6 – difluorophenyl
$\frac{1}{1}$	nitro	acetyl	3, 4 – difluorophenyl
	nitro	acetyl	3, 5 – difluorophenyl
1	nitro	acetyl	2 – chlorophenyl
1	nitro	acetyl	3 – chlorophenyl
1			
	nitro	acetyl	4 – chlorophenyl
1	nitro	acetyl	2, 4 – dichlorophenyl
1	nitro	acetyl	3, 4 - dichlorophenyl
1	nitro	acetyl	2 - bromophenyl
1	nitro	acetyl	3 - bromophenyl
1	nitro	acetyl	4 – bromophenyl
1	nitro	acetyl	2 - methylphenyl
1	nitro	acetyl	3 – methylphenyl
1	nitro	acetyl	4 - methylphenyl
1	nitro	acetyl	2 - methoxyphenyl
1	nitro	acetyl	3 – methoxyphenyl
1	nitro	acetyl	4 – methoxyphenyl
1	nitro	acetyl	2, 3 - dimethoxyphenyl
1	nitro	acetyl	2, 4 - dimethoxyphenyl
1	nitro	acetyl	3, 4 - dimethoxyphenyl
1	nitro	acetyl	3, 5 – dimethoxyphenyl
1	nitro	acetyl	3, 4 – ( methylenedioxy ) phenyl
1	nitro	acetyl	3, 4 – (ethylenedioxy) phenyl
1	nitro	acetyl	2 - hydroxyphenyl
1	nitro	acetyl	3 – hydroxyphenyl
1	nitro	acetyl	4 – hydroxyphenyl
1	nitro	acetyl	2 – aminophenyl
1	nitro	acetyl	3 – aminophenyl
1	nitro	acetyl	4 – aminophenyl
1	nitro	acetyl	2 – ( methylamino ) phenyl
1	nitro	acetyl	3 – ( methylamino ) phenyl
1	nitro	acetyl	4 - ( methylamino ) phenyl
1	nitro	acetyl	2 - (dimethylamino) phenyl
	nitro	acetyl	3 - (dimethylamino) phenyl
1	nitro	acetyl	4 – (dimethylamino) phenyl
1	nitro	acetyl	2 – carboxyphenyl
1	nitro	acetyl	3 – carboxyphenyl
1	nitro	acetyl	4 – carboxyphenyl
1	nitro	acetyl	2 - ( methylcarbamoyl ) phenyl
1	nitro	acetyl	3 - (methylcarbamoyl) phenyl
1	nitro	acetyl	4 - ( methylcarbamoyl ) phenyl
	nitro	acetyl	2 – ( methoxycarbonyl ) phenyl
1	nitro	acetyl	3 - ( methoxycarbonyl ) phenyl
1	nitro	acetyl	4 – ( methoxycarbonyl ) phenyl
1	nitro	acetyl	2 - ( ethoxycarbonyl ) phenyl
1	nitro	acetyl	3 – (ethoxycarbonyl) phenyl
1	nitro	acetyl	4 – ( ethoxycarbonyl ) phenyl

# Table 3(continuation 33)

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1	m	R <sup>1</sup>	R <sup>3</sup>	2
	1	nitro	acetyl	2 - ( acetyloxy ) phenyl
	1	nitro	acetyl	3 - (acetyloxy) phenyl
	1	nitro	acetyl	4 - ( acetyloxy ) phenyl
	1	nitro	acetyl	2 – ( propionyloxy ) phenyl
	1	nitro	acetyl	3 – ( propionyloxy ) phenyl
	1	nitro	acetyl	4 – (propionyloxy) phenyl
	1	nitro	acetyl	2 - trifluoromethylphenyl
	1	nitro	acetyl	3 - trifluoromethylphenyl
	1	nitro	acetyl	4 - trifluoromethylphenyl
	i		acetyl	2 - thienyl
	1	nitro	acetyl	3 – thienyl
		nitro nitro	acetyl	2 – furyl
	1			3 – furyl
	1	nitro	acetyl	2 – pyridyl
	1	nitro	acetyl	3 – pyridyl
	1	nitro	acetyl	
	1	nitro	acetyl	4 – pyridyl phenyl
	2	nitro	acetyl	
	2	nitro	acetyl	2 – fluorophenyl 3 – fluorophenyl
		nitro	acetyl	
	2	nitro	acetyl	4 – fluorophenyl 2, 4 – difluorophenyl
	2	nitro	acetyl	
	2	nitro	acetyl	2, 5 – difluorophenyl
	2	nitro	acetyl	2, 6 – difluorophenyl
	2	nitro	acetyl	3, 4 – difluorophenyl
	2	nitro	acetyl	3, 5 – difluorophenyl
	2	nitro	acetyl	2 - chlorophenyl 3 - chlorophenyl
	2	nitro	acetyl	4 – chlorophenyl
	2	nitro	acetyl	2, 4 – dichlorophenyl
	2	nitro	acetyl	3, 4 – dichlorophenyl
	2	nitro	acetyl	2 - bromophenyl
	2	nitro	acetyl	3 - bromophenyl
	2	nitro	acetyl	4 – bromophenyl
	2	nitro	acetyl	2 – methylphenyl
	2	nitro	acetyl	
	2	nitro	acetyl	3 – methylphenyl 4 – methylphenyl
	2	nitro	acetyl	
	2	nitro	acetyl	2 - methoxyphenyl
	. 2	nitro	acetyl	3 - methoxyphenyl
t e	2	nitro	acetyl	4 - methoxyphenyl
	2	nitro	acetyl	2, 3 – dimethoxyphenyl
	2	nitro	acetyl	2, 4 – dimethoxyphenyl
	2	nitro	acetyl	3, 4 – dimethoxyphenyl
	2	nitro	acetyl	3, 5 – dimethoxyphenyl
	2	nitro	acetyl	3, 4 – ( methylenedioxy ) phenyl
	2	nitro	acetyl	3, 4 – (ethylenedioxy) phenyl
	2	nitro	acetyl	2 – hydroxyphenyl
	2	nitro	acetyl	3 – hydroxyphenyl
	2	nitro	acetyl	4 – hydroxyphenyl
i -				

Table 3(continuation 34)

m	R1	R³	Z
2	nitro	acetyl	2 – aminophenyl
2	nitro	acetyl	3 – aminophenyl
2	· nitro	acetyl	4 – aminophenyl
2	nitro	acetyl	2 - (·methylamino ) phenyl
2	nitro	acetyl	3 – ( methylamino ) phenyl
2	nitro	acetyl	4 – ( methylamino ) phenyl
2	nitro	acetyl	2 – (dimethylamino) phenyl
2	nitro	acetyl	3 – (dimethylamino) phenyl
2	nitro	acetyl	4 – (dimethylamino) phenyl
2	nitro	acetyl	2 – carboxyphenyl
2	nitro	acetyl	· 3 – carboxyphenyl
2	nitro	acetyl	4 – carboxyphenyl
2	nitro	acetyl	2 - ( methylcarbamoyl ) phenyl
2	nitro	acetyl	3 – (methylcarbamoyl) phenyl
2	nitro	acetyl	4 – (methylcarbamoyl) phenyl
	nitro	acetyl	2 – (methytearoantoyi) phenyl
2	nitro	acetyl	3 - ( methoxycarbonyl ) phenyl
2 2 2 2	nitro	acetyl	4 – (methoxycarbonyl) phenyl
2	nitro	acetyl	2 - (ethoxycarbonyl) phenyl
2	nitro	acetyl	3 – (ethoxycarbonyl) phenyl
2	nitro	acetyl	4 – (ethoxycarbonyl) phenyl
2	nitro	acetyl	2 – ( acetyloxy ) phenyl
2	nitro	acetyl	3 – (acetyloxy) phenyl
2	nitro	acetyl	4 - (acetyloxy) phenyl
2	. nitro	acetyl	2 - ( propionyloxy ) phenyl
2	nitro	acetyl	3 – (propionyloxy) phenyl
2	nitro	acetyl	4-(propionyloxy) phenyl
2	nitro	acetyl	2 - trifluoromethylphenyl
2	nitro	acetyl	3 - trifluoromethylphenyl
2	nitro	acetyl	4 - trifluoromethylphenyl
2	nitro	acetyl	2 – thienyl
2	nitro	acetyl	3 – thienyl
2	nitro	acetyl	2 – furyl
2 ·	nitro	acetyl	3 – furyl
2	nitro	acetyl	2 – pyridyl
2	nitro	acetyl	3 – pyridyl
2	nitro	acetyl	4 – pyridyl
1	nitro	propionyl	phenyl
1	nitro	propionyl	2 – fluorophenyl
1	nitro	propionyl	3 – fluorophenyl
1	nitro	propionyl	4 – fluorophenyl
1	nitro	propionyl	2, 4 - difluorophenyl
1	nitro	propionyl	2, 5 - difluorophenyl
1	nitro	propionyl	2, 6 - difluorophenyl
1	nitro	propionyl	3, 4 - difluorophenyl
1	nitro	propionyl	3, 5 - difluorophenyl
1	nitro	propionyl	2 - chlorophenyl
1	nitro	propionyl	3 - chlorophenyl
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# Table 3(continuation 35)

m_	R¹	R <sup>3</sup>	Z
1	nitro	propionyl	4 – chlorophenyl
1	nitro	propionyl	2, 4 – dichlorophenyl
1	nitro	propionyl	3, 4 – dichlorophenyl
1	nitro	propionyl	2 - bromophenyl
1	nitro	propionyl	3 - bromophenyl
1	nitro	propionyl	4 – bromophenyl
1	nitro	propionyl	2 - methylphenyl
1	nitro	propionyl	3 - methylphenyl
1	nitro	propionyl	4 – methylphenyl
1	nitro	propionyl	2 – methoxyphenyl
1	nitro	propionyl	3 - methoxyphenyl
1	nitro	propionyl	4 - methoxyphenyl
1	nitro	propionyl	2, 3 – dimethoxyphenyl
1	nitro	propionyl	2, 4 - dimethoxyphenyl
1	nitro	propionyl	3, 4 - dimethoxyphenyl
l i	nitro	propionyl	3, 5 - dimethoxyphenyl
1	pitro	propionyl	3, 4 - ( methylenedioxy ) phenyl
1	nitro	propionyl	3, 4 – (ethylenedioxy) phenyl
1	nitro	propionyl	2 - hydroxyphenyl
1	nitro	propionyl	3 – hydroxyphenyl
1	nitro	propionyl	4 - hydroxyphenyl
1	nitro	propionyl	2 – aminophenyl
1	nitro	propionyl	3 – aminophenyl
1	nitro	propionyl	4 – aminophenyl
1	nitro	propionyl	2 - ( methylamino ) phenyl
1	nitro	propionyl	3 - ( methylamino ) phenyl
1	nitro	propionyl	4 - ( methylamino ) phenyl
1	nitro	propionyl	2 - (dimethylamino) phenyl
1	nitro	propionyl	3 - ( dimethylamino ) phenyl
1	nitro	propionyl	4 - ( dimethylamino ) phenyl
1	nitro	propionyl	2 – carboxyphenyl
1	nitro	propionyl	3 – carboxyphenyl
1	nitro	propionyl	4 – carboxyphenyl
1	nitro	propionyl	2 - ( methylcarbamoyl ) phenyl
1	nitro	propionyl	3 - ( methylcarbamoyl ) phenyl
1	nitro	propionyl	4 – ( methylcarbamoyl ) phenyl
1	nitro	propionyl	2 - ( methoxycarbonyl ) phenyl
1	nitro	propionyl	3 - ( methoxycarbonyl ) phenyl
1	nitro	propionyl	4 - ( methoxycarbonyl ) phenyl
1	nitro	propionyl	2 - (ethoxycarbonyl) phenyl
1	nitro	propionyl	3 – (ethoxycarbonyl) phenyl
1	nitro	propionyl	4 - (ethoxycarbonyl) phenyl
1	nitro	propionyl	2 - (acetyloxy) phenyl
1	nitro	propionyl	3 - (acetyloxy) phenyl
1	nitro	propionyl	4 – ( acetyloxy ) phenyl
1	nitro	propionyl	2 - (propionyloxy) phenyl
1	nitro	propionyl	3 – (propionyloxy) phenyl
1	nitro	propionyl	4 – ( propionyloxy ) phenyl
1	Гпипо	Probrona	1 4 - ( proprongrow) / pricings

Table 3(continuation 36)

1 nitro propionyl 2 - trifluoromethylphenyl 1 nitro propionyl 3 - trifluoromethylphenyl 1 nitro propionyl 4 - trifluoromethylphenyl 1 nitro propionyl 2 - thienyl 1 nitro propionyl 3 - thienyl 1 nitro propionyl 3 - thienyl 1 nitro propionyl 3 - thienyl 1 nitro propionyl 2 - pyridyl 1 nitro propionyl 3 - pyridyl 1 nitro propionyl 4 - pyridyl 1 nitro propionyl 4 - pyridyl 2 nitro propionyl 2 - fluorophenyl 2 nitro propionyl 3 - fluorophenyl 2 nitro propionyl 4 - fluorophenyl 2 nitro propionyl 4 - fluorophenyl 2 nitro propionyl 2, 4 - difluorophenyl 2 nitro propionyl 2, 5 - difluorophenyl 2 nitro propionyl 3, 5 - difluorophenyl 2 nitro propionyl 3, 5 - difluorophenyl 2 nitro propionyl 3 - chlorophenyl 2 nitro propionyl 4 - chlorophenyl 2 nitro propionyl 3 - chlorophenyl 2 nitro propionyl 3 - chlorophenyl 2 nitro propionyl 3 - chlorophenyl 2 nitro propionyl 3 - chlorophenyl 2 nitro propionyl 3 - chlorophenyl 2 nitro propionyl 4 - chlorophenyl 2 nitro propionyl 3 - chlorophenyl 2 nitro propionyl 3 - bromophenyl 2 nitro propionyl 3 - bromophenyl 2 nitro propionyl 3 - methylphenyl 2 nitro propionyl 4 - methylphenyl 2 nitro propionyl 4 - methylphenyl 2 nitro propionyl 3 - methoxyphenyl 2 nitro propionyl 3 - methoxyphenyl 3 - dimethoxyphenyl 3 - nitro propionyl 3 - dimethoxyphenyl 4 - pydroxyphenyl 5 - nitro propionyl 4 - methylphenyl 5 - nitro propionyl 4 - methylphenyl 5 - dim	m	R¹	R <sup>3</sup>	Z
1 nitro propionyl 3 - trifluoromethylphenyl 1 nitro propionyl 4 - trifluoromethylphenyl 1 nitro propionyl 2 - thienyl 1 nitro propionyl 3 - thienyl 1 nitro propionyl 3 - thienyl 1 nitro propionyl 3 - furyl 1 nitro propionyl 3 - furyl 1 nitro propionyl 3 - pyridyl 1 nitro propionyl 3 - pyridyl 1 nitro propionyl 4 - pyridyl 2 nitro propionyl 3 - fluorophenyl 2 nitro propionyl 3 - fluorophenyl 2 nitro propionyl 4 - fluorophenyl 2 nitro propionyl 2, 4 - difluorophenyl 2 nitro propionyl 2, 5 - difluorophenyl 2 nitro propionyl 3, 5 - difluorophenyl 2 nitro propionyl 3, 5 - difluorophenyl 2 nitro propionyl 3, 5 - difluorophenyl 2 nitro propionyl 3 - chlorophenyl 2 nitro propionyl 4 - chlorophenyl 2 nitro propionyl 3 - chlorophenyl 2 nitro propionyl 3 - chlorophenyl 2 nitro propionyl 4 - chlorophenyl 2 nitro propionyl 3 - difluorophenyl 2 nitro propionyl 3 - chlorophenyl 2 nitro propionyl 4 - chlorophenyl 2 nitro propionyl 3 - chlorophenyl 2 nitro propionyl 3 - chlorophenyl 2 nitro propionyl 4 - bromophenyl 2 nitro propionyl 3 - methylphenyl 2 nitro propionyl 3 - methylphenyl 2 nitro propionyl 4 - methylphenyl 2 nitro propionyl 3 - methylphenyl 2 nitro propionyl 4 - methoxyphenyl 3 - dimethoxyphenyl 4 nitro propionyl 3 - dimethoxyphenyl 5 nitro propionyl 3 - pydroxyphenyl 5 nitro propionyl 3 - pydroxyphenyl 5 nitro propionyl 3 - pydroxyphenyl 5 nitro propionyl 4 - methoxyphenyl 5 nitro propionyl 3 - methoxyphenyl 5 nitro propionyl 3 - pydroxyphenyl 5 nitro propionyl 3 - pydroxyphenyl 5 nitro propionyl 4 - methoxyphenyl 5 nitro propionyl 3 - pydroxyphenyl 5 nitro propionyl 4 - methoxyphenyl 5 nitro propionyl 4 - methoxyphenyl 5 nitro propionyl 5 - qerminophenyl 6 nitro propionyl 6 - qerminophenyl 7 ni			<del> </del>	
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2 nitro propionyl 3 - methylphenyl 2 nitro propionyl 4 - methylphenyl 2 nitro propionyl 2 - methoxyphenyl 2 nitro propionyl 3 - methoxyphenyl 2 nitro propionyl 4 - methoxyphenyl 2 nitro propionyl 2, 3 - dimethoxyphenyl 2 nitro propionyl 2, 4 - dimethoxyphenyl 2 nitro propionyl 3, 4 - dimethoxyphenyl 2 nitro propionyl 3, 5 - dimethoxyphenyl 2 nitro propionyl 3, 4 - (methylenedioxy) phenyl 2 nitro propionyl 3, 4 - (ethylenedioxy) phenyl 2 nitro propionyl 2 - hydroxyphenyl 2 nitro propionyl 3 - hydroxyphenyl 2 nitro propionyl 4 - hydroxyphenyl 2 nitro propionyl 2 - aminophenyl 2 nitro propionyl 3 - aminophenyl 2 nitro propionyl 4 - aminophenyl 2 nitro propionyl 2 - (methylamino) phenyl 3 nitro propionyl 3 - (methylamino) phenyl 3 nitro propionyl 3 - (methylamino) phenyl				
2 nitro propionyl 2-methoxyphenyl 2 nitro propionyl 3-methoxyphenyl 2 nitro propionyl 4-methoxyphenyl 2 nitro propionyl 4-methoxyphenyl 2 nitro propionyl 2, 3-dimethoxyphenyl 2 nitro propionyl 3, 4-dimethoxyphenyl 2 nitro propionyl 3, 4-dimethoxyphenyl 2 nitro propionyl 3, 5-dimethoxyphenyl 2 nitro propionyl 3, 4-(methylenedioxy) phenyl 2 nitro propionyl 3, 4-(ethylenedioxy) phenyl 2 nitro propionyl 2-hydroxyphenyl 2 nitro propionyl 3-hydroxyphenyl 2 nitro propionyl 4-hydroxyphenyl 2 nitro propionyl 2-aminophenyl 2 nitro propionyl 3-aminophenyl 2 nitro propionyl 3-aminophenyl 2 nitro propionyl 4-aminophenyl 2 nitro propionyl 2-(methylamino) phenyl 3 nitro propionyl 3-(methylamino) phenyl 3 nitro propionyl 3-(methylamino) phenyl				
2 nitro propionyl 2-methoxyphenyl 2 nitro propionyl 3-methoxyphenyl 2 nitro propionyl 4-methoxyphenyl 2 nitro propionyl 2, 3-dimethoxyphenyl 2 nitro propionyl 3, 4-dimethoxyphenyl 2 nitro propionyl 3, 5-dimethoxyphenyl 2 nitro propionyl 3, 4-(methylenedioxy) phenyl 2 nitro propionyl 3, 4-(ethylenedioxy) phenyl 2 nitro propionyl 3, 4-(ethylenedioxy) phenyl 2 nitro propionyl 2-hydroxyphenyl 2 nitro propionyl 3-hydroxyphenyl 2 nitro propionyl 4-hydroxyphenyl 2 nitro propionyl 3-aminophenyl 2 nitro propionyl 3-aminophenyl 2 nitro propionyl 4-aminophenyl 2 nitro propionyl 4-aminophenyl 2 nitro propionyl 2-(methylamino) phenyl 3 nitro propionyl 3-(methylamino) phenyl				
2 nitro propionyl 3 - methoxyphenyl 2 nitro propionyl 4 - methoxyphenyl 2 nitro propionyl 2, 3 - dimethoxyphenyl 2 nitro propionyl 3, 4 - dimethoxyphenyl 2 nitro propionyl 3, 5 - dimethoxyphenyl 2 nitro propionyl 3, 4 - (methylenedioxy) phenyl 2 nitro propionyl 3, 4 - (ethylenedioxy) phenyl 2 nitro propionyl 2 - hydroxyphenyl 2 nitro propionyl 3 - hydroxyphenyl 2 nitro propionyl 4 - hydroxyphenyl 2 nitro propionyl 2 - aminophenyl 2 nitro propionyl 3 - aminophenyl 2 nitro propionyl 4 - aminophenyl 2 nitro propionyl 2 - (methylamino) phenyl 3 nitro propionyl 3 - (methylamino) phenyl 3 nitro propionyl 3 - (methylamino) phenyl				
2 nitro propionyl 4- methoxyphenyl 2 nitro propionyl 2, 3- dimethoxyphenyl 2 nitro propionyl 3, 4- dimethoxyphenyl 2 nitro propionyl 3, 5- dimethoxyphenyl 2 nitro propionyl 3, 5- dimethoxyphenyl 2 nitro propionyl 3, 4- (methylenedioxy) phenyl 2 nitro propionyl 3, 4- (ethylenedioxy) phenyl 2 nitro propionyl 2- hydroxyphenyl 2 nitro propionyl 3- hydroxyphenyl 2 nitro propionyl 4- hydroxyphenyl 2 nitro propionyl 2- aminophenyl 2 nitro propionyl 3- aminophenyl 2 nitro propionyl 4- aminophenyl 2 nitro propionyl 2- (methylamino) phenyl 3 nitro propionyl 3- (methylamino) phenyl	1 2			
2 nitro propionyl 2, 4 – dimethoxyphenyl 2 nitro propionyl 3, 4 – dimethoxyphenyl 2 nitro propionyl 3, 5 – dimethoxyphenyl 2 nitro propionyl 3, 4 – (methylenedioxy) phenyl 2 nitro propionyl 3, 4 – (ethylenedioxy) phenyl 2 nitro propionyl 2 – hydroxyphenyl 2 nitro propionyl 3 – hydroxyphenyl 2 nitro propionyl 4 – hydroxyphenyl 2 nitro propionyl 2 – aminophenyl 2 nitro propionyl 3 – aminophenyl 2 nitro propionyl 4 – aminophenyl 2 nitro propionyl 2 – (methylamino) phenyl 2 nitro propionyl 3 – (methylamino) phenyl				
2 nitro propionyl 2, 4 – dimethoxyphenyl 2 nitro propionyl 3, 4 – dimethoxyphenyl 2 nitro propionyl 3, 5 – dimethoxyphenyl 2 nitro propionyl 3, 4 – (methylenedioxy) phenyl 2 nitro propionyl 3, 4 – (ethylenedioxy) phenyl 2 nitro propionyl 2 – hydroxyphenyl 2 nitro propionyl 3 – hydroxyphenyl 2 nitro propionyl 4 – hydroxyphenyl 2 nitro propionyl 2 – aminophenyl 2 nitro propionyl 3 – aminophenyl 2 nitro propionyl 4 – aminophenyl 2 nitro propionyl 2 – (methylamino) phenyl 2 nitro propionyl 3 – (methylamino) phenyl	1 2			
2 nitro propionyl 3, 5 – dimethoxyphenyl 2 nitro propionyl 3, 4 – (methylenedioxy) phenyl 2 nitro propionyl 3, 4 – (ethylenedioxy) phenyl 2 nitro propionyl 2 – hydroxyphenyl 2 nitro propionyl 3 – hydroxyphenyl 2 nitro propionyl 4 – hydroxyphenyl 2 nitro propionyl 2 – aminophenyl 2 nitro propionyl 3 – aminophenyl 2 nitro propionyl 4 – aminophenyl 2 nitro propionyl 2 – (methylamino) phenyl 2 nitro propionyl 3 – (methylamino) phenyl				2, 3 – dinethoxyphenyl
2 nitro propionyl 3, 5 – dimethoxyphenyl 2 nitro propionyl 3, 4 – (methylenedioxy) phenyl 2 nitro propionyl 3, 4 – (ethylenedioxy) phenyl 2 nitro propionyl 2 – hydroxyphenyl 2 nitro propionyl 3 – hydroxyphenyl 2 nitro propionyl 4 – hydroxyphenyl 2 nitro propionyl 2 – aminophenyl 2 nitro propionyl 3 – aminophenyl 2 nitro propionyl 4 – aminophenyl 2 nitro propionyl 2 – (methylamino) phenyl 2 nitro propionyl 3 – (methylamino) phenyl	1 2			
2 nitro propionyl 3, 4 – (methylenedioxy) phenyl 2 nitro propionyl 3, 4 – (ethylenedioxy) phenyl 2 nitro propionyl 2 – hydroxyphenyl 2 nitro propionyl 3 – hydroxyphenyl 2 nitro propionyl 4 – hydroxyphenyl 2 nitro propionyl 2 – aminophenyl 2 nitro propionyl 3 – aminophenyl 2 nitro propionyl 4 – aminophenyl 2 nitro propionyl 2 – (methylamino) phenyl 2 nitro propionyl 3 – (methylamino) phenyl				
2 nitro propionyl 3, 4 - (ethylenedioxy ) phenyl 2 nitro propionyl 2 - hydroxyphenyl 2 nitro propionyl 3 - hydroxyphenyl 2 nitro propionyl 4 - hydroxyphenyl 2 nitro propionyl 2 - aminophenyl 2 nitro propionyl 3 - aminophenyl 2 nitro propionyl 4 - aminophenyl 2 nitro propionyl 2 - (methylamino ) phenyl 2 nitro propionyl 3 - (methylamino ) phenyl	1 2			3, 3 — Giricinoxypnenyi
2 nitro propionyl 2 – hydroxyphenyl 2 nitro propionyl 3 – hydroxyphenyl 2 nitro propionyl 4 – hydroxyphenyl 2 nitro propionyl 2 – aminophenyl 2 nitro propionyl 3 – aminophenyl 2 nitro propionyl 4 – aminophenyl 2 nitro propionyl 2 – (methylamino) phenyl 2 nitro propionyl 3 – (methylamino) phenyl	1 2			
2 nitro propionyl 3-hydroxyphenyl 2 nitro propionyl 4-hydroxyphenyl 2 nitro propionyl 2-aminophenyl 2 nitro propionyl 3-aminophenyl 2 nitro propionyl 4-aminophenyl 2 nitro propionyl 2-(methylamino) phenyl 2 nitro propionyl 3-(methylamino) phenyl				
2 nitro propionyl 4-hydroxyphenyl 2 nitro propionyl 2-aminophenyl 2 nitro propionyl 3-aminophenyl 2 nitro propionyl 4-aminophenyl 2 nitro propionyl 2-(methylamino) phenyl 2 nitro propionyl 3-(methylamino) phenyl				
2 nitro propionyl 2-aminophenyl 2 nitro propionyl 3-aminophenyl 2 nitro propionyl 4-aminophenyl 2 nitro propionyl 2-(methylamino) phenyl 2 nitro propionyl 3-(methylamino) phenyl				
2 nitro propionyl 3-aminophenyl 2 nitro propionyl 4-aminophenyl 2 nitro propionyl 2-(methylamino) phenyl 2 nitro propionyl 3-(methylamino) phenyl				
2 nitro propionyl 4 – aminophenyl 2 nitro propionyl 2 – (methylamino ) phenyl 2 nitro propionyl 3 – (methylamino ) phenyl				
2 nitro propionyl 2 – ( methylamino ) phenyl 2 nitro propionyl 3 – ( methylamino ) phenyl	2			
2 nitro propionyl 3 – (methylamino) phenyl	2			
2   nitro   propional 4 (mathulamina ) at and				
2 1 mito   propionyi   4 - t mentyiamino ) pnenyi	2	nitro	propionyl	4 – ( methylamino ) phenyl

# Table 3(continuation 37)

m	R¹	R <sup>3</sup>	2
2	nitro	propionyl	2 - ( dimethylamino ) phenyl
2	nitro	propionyl	3 – (dimethylamino) phenyl
2	nitro	propionyl	4 - (dimethylamino) phenyl
2	nitro	propionyl	2 - carboxyphenyl
2	nitro	propionyl	3 - carboxyphenyl
2	nitro	propionyl	4 - carboxyphenyl
2	nitro	propionyl	2 - ( methylcarbamoyl ) phenyl
2	nitro	propionyl	3 – ( methylcarbamoyl ) phenyl
2	nitro	propionyl	4 – ( methylcarbamoyl ) phenyl
2	nitro	propionyl	2 – ( methoxycarbonyl ) phenyl
		propionyl	3 – ( methoxycarbonyl ) phenyl
2	nitro		4 – ( methoxycarbonyl ) phenyl
2	nitro	propionyl	2 – (ethoxycarbonyl) phenyl
1-2-	nitro	propionyl	3 – (ethoxycarbonyl) phenyl
2 2	nitro	propionyl propionyl	4 – (ethoxycarbonyl) phenyl
2	nitro		
2 2 2	nitro	propionyl	2 - (acetyloxy) phenyl
2	nitro	propionyl	3 - (acetyloxy) phenyl
	nitro	propionyl	4 - (acetyloxy) phenyl
2	nitro	propionyl	2 - ( propionyloxy ) phenyl
2	nitro	propionyl	3 - ( propionyloxy ) phenyl
2	nitro	propionyl	4 – (propionyloxy) phenyl
2	nitro	propionyl	2 - trifluoromethylphenyl 3 - trifluoromethylphenyl
2	nitro	propionyl	4 - trifluoromethylphenyl
2 2 2	nitro	propionyl	2 – thienyl
2	nitro	propionyl	3 – thienyl
2	nitro	propionyl	2 – furyl
2	nitro	propionyl	3 – furyl
2	nitro	propionyl	2 – pyridyl
2	nitro	propionyl propionyl	3 – pyridyl
2	nitro	propionyl	4 – pyridyl
	nitro		
1	nitro	ethoxycarbonyl ethoxycarbonyl	phenyl 2 – fluorophenyl
1	nitro	ethoxycarbonyl	3 – fluorophenyl
1	nitro	ethoxycarbonyl	4 – fluorophenyl
1	nitro		2, 4 – difluorophenyl
1	nitro	ethoxycarbonyl ethoxycarbonyl	2, 4 - difluorophenyl
1	nitro		2, 6 - difluorophenyl
1	nitro	ethoxycarbonyl	3, 4 – difluorophenyl
1	nitro	ethoxycarbonyl	3, 5 – difluorophenyl
1	nitro	ethoxycarbonyl	
1	nitro	ethoxycarbonyl	2 – chlorophenyl
1 1	nitro	ethoxycarbonyl	3 – chlorophenyl
1	nitro	ethoxycarbonyl	4 – chlorophenyl
1	nitro	ethoxycarbonyl	2, 4 - dichlorophenyl
1	nitro	ethoxycarbonyl	3, 4 - dichlorophenyl
1	nitro	ethoxycarbonyl	2 – bromophenyl
1	nitro nitro	ethoxycarbonyl ethoxycarbonyl	3 - bromophenyl 4 - bromophenyl
1			

of a

Table 3(continuation 38)

m	R,	R³	2
1	nitro	ethoxycarbonyl	2 – methylphenyl
i	nitro	ethoxycarbonyl	3 – methylphenyl
1	nitro	ethoxycarbonyl	4 – methylphenyl
1	pitro	ethoxycarbonyl	2 – methoxyphenyl
1	nitro	ethoxycarbonyl	3 – methoxyphenyl
1	nitro	ethoxycarbonyl	4 - methoxyphenyl
1	nitro	ethoxycarbonyl	2, 3 – dimethoxyphenyl
1	nitro	ethoxycarbonyl	2, 4 – dimethoxyphenyl
1	nitro	ethoxycarbonyl	3, 4 – dimethoxyphenyl
1	nitro	ethoxycarbonyl	3, 5 – dimethoxyphenyl
1	nitro	ethoxycarbonyl	3, 4 – (methylenedioxy) phenyl
1	nitro	ethoxycarbonyl	3, 4 - (ethylenedioxy) phenyl
1	nitro	ethoxycarbonyl	2 – hydroxyphenyl
1	nitro	ethoxycarbonyl	3 – hydroxyphenyl
1	nitro	ethoxycarbonyl	4 – hydroxyphenyl
1	nitro	ethoxycarbonyl	2 – aminophenyl
1	nitro	ethoxycarbonyl	3 – aminophenyl
1	nitro	ethoxycarbonyl	4 – aminophenyl
1	nitro	ethoxycarbonyl	2 – ( methylamino ) phenyl
1	nitro	ethoxycarbonyl	3 – ( methylamino ) phenyl
1	nitro	ethoxycarbonyl	4 - ( methylamino ) phenyl
1	nitro	ethoxycarbonyl	2 - ( dimethylamino ) phenyl
1	nitro	ethoxycarbonyl	3 – ( dimethylamino ) phenyl
1	nitro	ethoxycarbonyl	4 - ( dimethylamino ) phenyl
1	nitro	ethoxycarbonyl	2 - carboxyphenyl
1	nitro	ethoxycarbonyl	3 – carboxyphenyl
1	nitro	ethoxycarbonyl	4 – carboxyphenyl
1	nitro	ethoxycarbonyl	2 - ( methylcarbamoyl ) phenyl
1	nitro	ethoxycarbonyl	3 - ( methylcarbamoyl ) phenyl
1	nitro	ethoxycarbonyl	4 - ( methylcarbamoyl ) phenyl
1	nitro	ethoxycarbonyl	2 – ( methoxycarbonyl ) phenyl
1	nitro	ethoxycarbonyl	3 – ( methoxycarbonyl ) phenyl
1	nitro	ethoxycarbonyl	4-( methoxycarbonyl ) phenyl
• 1	nitro	ethoxycarbonyl	2 – (ethoxycarbonyl) phenyl
1	nitro	ethoxycarbonyl	3 - ( ethoxycarbonyl ) phenyl
1	nitro	ethoxycarbonyl	4 – ( ethoxycarbonyl ) phenyl
1	nitro	ethoxycarbonyl	2 - ( acetyloxy ) phenyl
1	nitro	ethoxycarbonyl	3 – ( acetyloxy ) phenyl
1	nitro	ethoxycarbonyl	4 – ( acetyloxy ) phenyl
1	nitro	ethoxycarbonyl	2 – ( propionyloxy ) phenyl
1	nitro	ethoxycarbonyl	3 – ( propionyloxy ) phenyl
1	nitro	ethoxycarbonyl	4 – ( propionyloxy ) phenyl
1	nitro	ethoxycarbonyl	2 - trifluoromethylphenyl
1	nitro	ethoxycarbonyl	3 - trifluoromethylphenyl
1	nitro	ethoxycarbonyl	. 4 - trifluoromethylphenyl
1	nitro	ethoxycarbonyl	2 – thienyl
1	nitro	ethoxycarbonyl	3 – thienyl
1	nitro	ethoxycarbonyl	2 – furyl
1	nitro	ethoxycarbonyl	2 – furyl

# Table 3(continuation 39)

	m	R <sup>1</sup>	R³	Z ·
_	1	nitro	ethoxycarbonyl	3 – furyl
5	1	nitro	ethoxycarbonyl	2 – pyridyl
	i	nitro	ethoxycarbonyl	3 – pyridyl
	1	nitro	ethoxycarbonyl	4 – pyridyl
	2	nitro	ethoxycarbonyl	phenyl
10	2	nitro	ethoxycarbonyl	2 – fluorophenyl
	2	nitro	ethoxycarbonyl	3 – fluorophenyl
	2	nitro	ethoxycarbonyl	4 – fluorophenyl
	2	nitro	ethoxycarbonyl	2, 4 - difluorophenyl
	2	nitro	ethoxycarbonyl	2, 5 - difluorophenyl
15	2	nitro	ethoxycarbonyl	2, 6 - difluorophenyl
	2	nitro	ethoxycarbonyl	3, 4 – difluorophenyl
	2	nitro	ethoxycarbonyl	3, 5 - difluorophenyl
	2	nitro	ethoxycarbonyl	2 – chlorophenyl
	2	nitro	ethoxycarbonyl	3 – chlorophenyl
20	2 .	nitro	ethoxycarbonyl	4 – chlorophenyl
	2	nitro	ethoxycarbonyl	2, 4 - dichlorophenyl
	2	nitro	ethoxycarbonyl	3, 4 - dichlorophenyl
	2	nitro	ethoxycarbonyl	2 – bromophenyl
(2)	2	nitro	ethoxycarbonyl	3 – bromophenyl
25	2	nitro	ethoxycarbonyl	4 – bromophenyl
	2	nitro	ethoxycarbonyl	2 – methylphenyl
	2	nitro	ethoxycarbonyl	3 – methylphenyl
	2	nitro	ethoxycarbonyl	4 - methylphenyl
30	2	nitro	ethoxycarbonyl	2 - methoxyphenyl
50	2	nitro	ethoxycarbonyl	3 - methoxyphenyl
	2	nitro	ethoxycarbonyl	4 - methoxyphenyl
	2	nitro	ethoxycarbonyl	2, 3 - dimethoxyphenyl
	2	nitro	ethoxycarbonyl	2, 4 - dimethoxyphenyl
35	2	nitro	ethoxycarbonyl	3, 4 - dimethoxyphenyl
	2	nitro	ethoxycarbonyl	3, 5 - dimethoxyphenyl
	2	nitro	ethoxycarbonyl	3, 4-( methylenedioxy ) phenyl
	2	nitro	ethoxycarbonyl	3, 4 - (ethylenedioxy) phenyl
	2	nitro	ethoxycarbonyl	2 – hydroxyphenyl
40	2	nitro	ethoxycarbonyl	3 – hydroxyphenyl
	2	nitro	ethoxycarbonyl	4 – hydroxyphenyl
	2	nitro	ethoxycarbonyl	2 – aminophenyl
	2	nitro	ethoxycarbonyl	3 – aminophenyl
<u></u>	2	nitro	ethoxycarbonyl	4 – aminophenyl
45	2	nitro	ethoxycarbonyl	2 - ( methylamino ) phenyl
	2	nitro	ethoxycarbonyl	3 - ( methylamino ) phenyl
	2	nitro	ethoxycarbonyl	4 - ( methylamino ) phenyl
	2	nitro	ethoxycarbonyl	2 - ( dimethylamino ) phenyl
50	2	nitro	ethoxycarbonyl	3 - ( dimethylamino ) phenyl
55	2	nitro	ethoxycarbonyl	4 - ( dimethylamino ) phenyl
	2	nitro	ethoxycarbonyl	2 - carboxyphenyl
	2	nitro	ethoxycarbonyl	3 – carboxyphenyl
	2 .	nitro	ethoxycarbonyl	4 - carboxyphenyl

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# Table 3(continuation 40)

	D.I.		-
m	R <sup>1</sup>	R³	Z
2	nitro	ethoxycarbonyl	2 - ( methylcarbamoyl ) phenyl
2	nitro	ethoxycarbonyl	3 – ( methylcarbamoyl ) phenyl
2	nitro	ethoxycarbonyl	4 - ( methylcarbamoyl ) phenyl
2	nitro	ethoxycarbonyl	2 - ( methoxycarbonyl ) phenyl
2	nitro	ethoxycarbonyl	3 - ( methoxycarbonyl ) phenyl
2	nitro	ethoxycarbonyl	4 - ( methoxycarbonyl ) phenyl
2	nitro	ethoxycarbonyl	2 - ( ethoxycarbonyl ) phenyl
2	nitro	ethoxycarbonyl	3 - ( ethoxycarbonyl ) phenyl
2	nitro	ethoxycarbonyl	4 - (ethoxycarbonyl) phenyl
2	nitro	ethoxycarbonyl	2 – ( acetyloxy ) phenyl
2	nitro	ethoxycarbonyl	3 – ( acetyloxy ) phenyl
2	nitro	ethoxycarbonyl	4 - ( acetyloxy ) phenyl
2	nitro	ethoxycarbonyl	2 – ( propionyloxy ) phenyl
2	nitro	ethoxycarbonyl	3 – ( propionyloxy ) phenyl
2	nitro	ethoxycarbonyl	4 – ( propionyloxy ) phenyl
2	nitro	ethoxycarbonyl	2 - trifluoromethylphenyl
2	nitro	ethoxycarbonyl	3 - trifluoromethylphenyl
2	nitro	ethoxycarbonyl	4 - trifluoromethylphenyl
2	nitro	ethoxycarbonyl	2 – thienyl
2	nitro	ethoxycarbonyl	3 – thienyl
2	nitro	ethoxycarbonyl	2 – furyl
2	nitro	ethoxycarbonyl	3 – furyl
2	nitro	ethoxycarbonyl	2 – pyridyl
2	nitro	ethoxycarbonyl	3 – pyridyl
2	nitro	ethoxycarbonyl	4 – pyridyl

Table 4

R<sup>1</sup> N (CH<sub>2</sub>)<sub>m</sub>

Each substituent in the formula above is as follows:

m	R¹	R <sup>3</sup>	Z
1	nitro	Н	phenyl ·
1	nitro	Н	2 – fluorophenyl
1	nitro	Н	3 – fluorophenyl
1	nitro	Н	4 – fluorophenyl
1	nitro	Н	2, 4 – difluorophenyl
1	nitro	Н	2, 5 – difluorophenyl
1	nitro	Н	2, 6 – difluorophenyl
1	nitro	Н	3, 4 – difluorophenyl
1	nitro	Н	3, 5 – difluorophenyl
1	nitro	Н	2 – chlorophenyl
1	nitro	Н	3 – chlorophenyl
1	nitro	Н	4 – chlorophenyl
1	nitro	H	· 4 – methylphenyl
1	nitro	Н	2 – methoxyphenyl
1	nitro	H	3 – methoxyphenyl
1	nitro	H	4 - methoxyphenyl
1	nitro	H	2, 3 - dimethoxyphenyl
1	nitro	Н	2, 4 - dimethoxyphenyl
1	nitro	H_	2, 5 – dimethoxyphenyl
1	nitro	H	3, 4 – dimethoxyphenyl
1	nitro	H	3, 5 - dimethoxyphenyl
1	nitro	H.	3, 4 - ( methylenedioxy ) phenyl
1	nitro	Н	2 – hydroxyphenyl
1	nitro	Н	3 – hydroxyphenyl
1	nitro	Н	4 – hydroxyphenyl
1	nitro	Н	4 – aminophenyl
1	nitro	Н	4 - ( methylamino ) phenyl
1	nitro	Н	4 – ( dimethylamino ) phenyl
1	nitro	Н	4 - ( methylcarbamoyl ) phenyl
1	nitro	Н	2 - ( acetyloxy ) phenyl
1	nitro	Н	3 – ( acetyloxy ) phenyl
1	nitro	Н	4 – ( acetyloxy ) phenyl
1	nitro	Н	2-( propionyloxy ) phenyl
1	nitro	H	3 – ( propionyloxy ) phenyl
1	nitro	Н	4 – ( propionyloxy ) phenyl
1	nitro	Н	2 - trifluoromethylphenyl
1	nitro	Н	3 - trifluoromethylphenyl
1	nitro	Н	4 - trifluoromethylphenyl
<u> </u>	<u> </u>	-	

# Table 4(continuation 1)

m	R¹	R <sup>3</sup>	Z
2	nitro	Н	phenyl
2	nitro	Н	2 – fluorophenyl
	nitro	Н	3 – fluorophenyl
2	nitro	Н	4 – fluorophenyl
2 2 2 2 2 2 2 2 2	nitro	Н	2, 4 – difluorophenyl
7	nitro	Н	2, 5 – difluorophenyl
2	nitro	Н	2, 6 – difluorophenyl
7	nitro	H	3, 4 – difluorophenyl
2	nitro	H	3, 5 – difluorophenyl
2	nitro	H	2 – chlorophenyl
2	nitro	Н	3 – chlorophenyl
1 2	nitro	Н	4 – chlorophenyl
	nitro	H	
2		H	4 - methylphenyl
2 2 2 2 2	nitro	H	2 - methoxyphenyl
2	nitro	H	3 – methoxyphenyl
2	nitro nitro		4 – methoxyphenyl
		H	2, 3 – dimethoxyphenyl
2 2 2 2	nitro	H	2, 4 – dimethoxyphenyl
<del>  2</del>	nitro	H	2, 5 – dimethoxyphenyl
2	nitro nitro	H ·	3, 4 – dimethoxyphenyl
2	nitro	H	3, 5 – dimethoxyphenyl
2			3, 4 – (methylenedioxy) phenyl
2	nitro	H	2 – hydroxyphenyl
2	nitro	H	3 – hydroxyphenyl
2	nitro nitro	H	4 – hydroxyphenyl
2	nitro	H	4 - aminophenyl 4 - ( methylamino ) phenyl
2	nitro	H	4 – ( dimethylamino ) phenyl
	nitro	H	4 – ( methylcarbamoyl ) phenyl
2	nitro	H	2 – ( acetyloxy ) phenyl
· 2	nitro	H	3 - (acetyloxy) phenyl
2	nitro	H	4 – (acetyloxy) phenyl
2	nitro	H	2 – ( propionyloxy ) phenyl
2	nitro	Н	3 – (propionyloxy) phenyl
2	nitro	H	4 – ( propionyloxy ) phenyl
2	nitro	H	2 - trifluoromethylphenyl
2	nitro	Н	3 - trifluoromethylphenyl
2	nitro	Н	4 - trifluoromethylphenyl
1	fluoro	Н	phenyl
1	fluoro	H	2 – fluorophenyl
1	fluoro	Н	3 – fluorophenyl
i	fluoro	H	4 – fluorophenyl
1	fluoro	H	2, 4 – difluorophenyl
1	fluoro	H	2, 5 – difluorophenyl
1	fluoro	H	2, 5 - difluorophenyl
i	fluoro	H	3, 4 – difluorophenyl
			3,4 - unituorophenyi
1	fluoro	H	3, 5 – difluorophenyl
1	fluoro	Н	2 – chlorophenyl

# Table 4(continuation 2)

		_		
	m	R1	R³	Z
	1	fluoro	Н	. 3 - chlorophenyl
	1	fluoro	Н	4 - chlorophenyl
	1	fluoro	Н	4 – methylphenyl
	1	fluoro	Н	2 - methoxyphenyl
)	1	fluoro	Н	3 - methoxyphenyl
	1	fluoro	Н	4 – methoxyphenyl
	1	fluoro	Н	2, 3 - dimethoxyphenyl
	1	fluoro	Н	2, 4 - dimethoxyphenyl
	1	fluoro	Н	2, 5 - dimethoxyphenyl
5	i	fluoro	Н	3, 4 - dimethoxyphenyl
	1	fluoro	H	3, 5 - dimethoxyphenyl
	1	fluoro	Н	3, 4 - ( methylenedioxy ) phenyl
	1	fluoro	Н	2 - hydroxyphenyl
	1	fluoro	Н	3 – hydroxyphenyl
9	1	fluoro	H	4 – hydroxyphenyl
	1	fluoro	H	4 – aminophenyl
	1	fluoro	Н	4 - ( methylamino ) phenyl
	1	fluoro	H	4 - ( dimethylamino ) phenyl
5	1	fluoro	Н	4 - ( methylcarbamoyl ) phenyl
	1	fluoro	Н	2 – ( acetyloxy ) phenyl
	1	fluoro	H	3 – ( acetyloxy ) phenyl
	1	fluoro	H	4 – ( acetyloxy ) phenyl
	1	fluoro	H	2 – ( propionyloxy ) phenyl
0	1	fluoro	Н	3 - ( propionyloxy ) phenyl
	1	fluoro	H	4 – ( propionyloxy ) phenyl
	1	fluoro	Н	2 - trifluoromethylphenyl
	1	fluoro	Н	3 - trifluoromethylphenyl
	1	fluoro	H	4 - trifluoromethylphenyl
5	1	chloro	Н	phenyl
	1	chloro	H	2 – fluorophenyl
	1	chloro	H	3 – fluorophenyl
	1	chloro	H	4 – fluorophenyl
o	1	chloro		2, 4 – difluorophenyl
	1	chloro chloro	H H	2, 5 – difluorophenyl
	1	chloro	H	2, 6 – difluorophenyl 3, 4 – difluorophenyl
	1	chloro	Н	3, 5 – difluorophenyl
5	1	chloro	H	2 - chlorophenyl 3 - chlorophenyl
	1	chloro chloro	H	4 – chlorophenyl
	1	chloro	H	4 - methylphenyl
		chloro	Н	2 - methoxyphenyl
	1	chloro	H	3 - methoxyphenyl
5 <b>0</b>	1	chloro	H	4 – methoxyphenyl
	<del>- i -</del>	chloro	Н	
	1	chloro	H	2, 3 – dimethoxyphenyl
				2, 4 – dimethoxyphenyl
	1	chloro	H	2, 5 – dimethoxyphenyl
i5	1	chloro	Н	3, 4 - dimethoxyphenyl

### Table 4(continuation 3)

	m	R¹	R <sup>3</sup>	Z
	1	chloro	Н	3, 5 - dimethoxyphenyl
	1	chloro	Н	3, 4 - ( methylenedioxy ) phenyl
	1	chloro	Н	2 - hydroxyphenyl
	1	chloro	Н	3 - hydroxyphenyl
)	1	chloro	Н	4 - hydroxyphenyl
	1	chloro	Н	4 – aminophenyl
	1	chloro	Н	4 - ( methylamino ) phenyl
	1	chloro	Н	4 - (dimethylamino) phenyl
	1	chloro	Н	4 - ( methylcarbamoyl ) phenyl
;	1	chloro	Н	2 - ( acetyloxy ) phenyl
	1	chloro	Н	3 - ( acetyloxy ) phenyl
	1	chloro	Н	4 - ( acetyloxy ) phenyl
	1	chloro	Н	2 - ( propionyloxy ) phenyl
	1	chloro	Н	3 – ( propionyloxy ) phenyl
,	1	chloro	Н	4 - ( propionyloxy ) phenyl
	1	chloro	Н	2 - trifluoromethylphenyl
	1	chloro	Н	3 - trifluoromethylphenyl
	1	chloro	Н	4 - trifluoromethylphenyl
5	1	nitro	methyl	phenyl
	1	nitro	methyl	2 – fluorophenyl
	1	nitro	methyl	3 – fluorophenyl
	1	nitro	methyl	4 – fluorophenyl
	1	nitro	methyl	2, 4 - difluorophenyl
)	1	nitro	methyl	2, 5 – difluorophenyl
	1	nitro	methyl	2, 6 – difluorophenyl
	1	nitro	methyl	3, 4 – difluorophenyl
	1	nitro	methyl	3, 5 – difluorophenyl
	1	nitro	methyl	2 – chlorophenyl
5	1	nitro	methyl	3 – chlorophenyl
	11	nitro	methyl	4 – chlorophenyl
	1	nitro	methyl	4 – methylphenyl
	1	nitro	methyl	2 - methoxyphenyl
	11	nitro	methyl	3 – methoxyphenyl
9	1	nitro	methyl	4 – methoxyphenyl
	1	nitro	methyl	2, 3 – dimethoxyphenyl
	1	nitro	methyl	2, 4 - dimethoxyphenyl
	1	nitro	methyl	2, 5 - dimethoxyphenyl
5	1	nitro	methyl	3, 4 – dimethoxyphenyl
	1	nitro	methyl	3, 5 - dimethoxyphenyl
	1	nitro	methyl	3, 4 – ( methylenedioxy ) phenyl
1	1	nitro	methyl	2 – hydroxyphenyl
	1	nitro	methyl	3 – hydroxyphenyl
o	1	nitro	methyl	4 - hydroxyphenyl
	1	nitro	methyl	4 – aminophenyl
	1	nitro	methyl	4 - ( methylamino ) phenyl
	1	nitro	methyl	4 – ( dimethylamino ) phenyl
	1	nitro	methyl	4 – ( methylcarbamoyl ) phenyl

nitro

methyl

2 - ( acetyloxy ) phenyl

# Table 4(continuation 4)

	m	R <sup>1</sup>	R <sup>3</sup>	2
5	1	nitro	methyl	3 – ( acetyloxy ) phenyl
	1	nitro	methyl	4 - (acetyloxy) phenyl
	1	nitro	methyl	2 - ( propionyloxy ) phenyl
	1	nitro	methyl	3 – (propionyloxy) phenyl
	1	nitro	methyl	4 – ( propionyloxy ) phenyl
10	1	nitro	methyl	2 - trifluoromethylphenyl
				3 - trifluoromethylphenyl
	1	nitro	methyl	4 - trifluoromethylphenyl
	1	nitro	methyl	phenyl
4.5	2	nitro	methyl	
15	2	nitro	methyl	2 – fluorophenyl
	2	nitro	methyl	3 – fluorophenyl
	2	nitro	methyl	4 – fluorophenyl
	2	nitro	methyl	2, 4 – difluorophenyl
20	2	nitro	methyl	2, 5 - difluorophenyl
20	2	nitro	methyl	2, 6 – difluorophenyl
	2	nitro	methyl	3, 4 – difluorophenyl
	2	nitro	methyl	3, 5 – difluorophenyl
	2	nitro	methyl	2 - chlorophenyl
25	2	nitro	methyl	3 – chlorophenyl
20	2	nitro	methyl	4 – chlorophenyl
	2	nitro	methyl	· 4 - methylphenyl
	2	nitro	methyl	2 - methoxyphenyl
	2	nitro	methyl	3 - methoxyphenyl
30	2	nitro	methyl	4 – methoxyphenyl
	2	nitro	methyl	2, 3 – dimethoxyphenyl
	2	nitro	methyl	2, 4 - dimethoxyphenyl
	2	nitro	methyl	2, 5 - dimethoxyphenyl
	2	nitro	methyl	3, 4 - dimethoxyphenyl
35	2	nitro	methyl	3, 5 - dimethoxyphenyl
	2	nitro	methyl	3, 4 - ( methylenedioxy ) phenyl
	2	nitro	methyl	2 – hydroxyphenyl
	2	nitro	methyl	3 - hydroxyphenyl
	2	nitro	methyl	4 – hydroxyphenyl
40	2	nitro	methyl	4 – aminophenyl
	2	nitro	methyl	4 - ( methylamino ) phenyl
	2	nitro	methyl	4 - ( dimethylamino ) phenyl
	2	nitro	methyl	4 - (methylcarbamoyl) phenyl
	2	nitro	methyl	2 - ( acetyloxy ) phenyl
<b>45</b> .	2	nitro	methyl	3 - ( acetyloxy ) phenyl
	2	nitro	methyl	4 ( acetyloxy ) phenyl
	2	nitro	methyl	2 – ( propionyloxy ) phenyl
	2	nitro	methyl	3 – ( propionyloxy ) phenyl
	2	nitro	methyl	4 - ( propionyloxy ) phenyl
50	2	nitro	methyl	2 - trifluoromethylphenyl
	2	nitro	methyl	3 - trifluoromethylphenyl
	2	nitro	methyl	4 - trifluoromethylphenyl
	1	nitro	ethyl	phenyl
	1	nitro	ethyl	2 – fluorophenyl
55				

# Table 4(continuation 5)

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	R <sup>i</sup>	R³	Z
<u>m</u>	nitro	ethyl	3 – fluorophenyl
1			
	nitro	ethyl	4 – fluorophenyl
1	nitro	ethyl	2, 4 – difluorophenyl
1	nitro	ethyl	2, 5 – difluorophenyl
1	nitro	ethyl	2, 6 – difluorophenyl
1	nitro	ethyl	3, 4 – difluorophenyl
1	nitro	ethyl	3, 5 – difluorophenyl
1	nitro_	ethyl	2 – chlorophenyl
1	nitro	ethyl	3 – chlorophenyl
1	nitro	ethyl	4 – chlorophenyl
1	nitro	ethyl	4 - methylphenyl
1	nitro	ethyl	2 - methoxyphenyl
1	nitro	ethyl	3 - methoxyphenyl
1	nitro	ethyl	4 – methoxyphenyl
1	nitro	ethyl	2, 3 - dimethoxyphenyl
1	nitro	ethyl	2, 4 - dimethoxyphenyl
1	nitro	ethyl	2, 5 - dimethoxyphenyl
1	nitro	ethyl	3, 4 - dimethoxyphenyl
1	nitro	ethyl	3, 5 - dimethoxyphenyl
1	nitro	ethyl	3, 4 - ( methylenedioxy ) phenyl
1	nitro	ethyl	2 – hydroxyphenyl
1	nitro	ethyl	3 - hydroxyphenyl
1	nitro	ethyl	4 – hydroxyphenyl
1	nitro	ethyl	4 – aminophenyl
1	nitro	ethyl	4 - ( methylamino ) phenyl
1	nitro	ethyl	4 - ( dimethylamino ) phenyl
1	nitro	ethyl	4 - ( methylcarbamoyl ) phenyl
1	nitro	ethyl	2 – ( acetyloxy ) phenyl
1	nitro	ethyl	3 - ( acetyloxy ) phenyl
1	nitro	ethyl	4 - ( acetyloxy ) phenyl .
1	nitro	ethyl	2 – ( propionyloxy ) phenyl
1	nitro	ethyl	3 – ( propionyloxy ) phenyl
1	nitro	ethyl	4 – ( propionyloxy ) phenyl
1	nitro	ethyl	2 - trifluoromethylphenyl
1	nitro	ethyl	3 - trifluoromethylphenyl
1	nitro .	ethyl	4 - trifluoromethylphenyl
2	nitro	ethyl	phenyl
2	nitro	ethyl	2 – fluorophenyl
	nitro	ethyl	3 - fluorophenyl
2	nitro	ethyl	4 – fluorophenyl
2	nitro	ethyl	2, 4 - difluorophenyl
2	nitro	ethyl	2, 5 - difluorophenyl
2	nitro	ethyl	2, 6 – difluorophenyl
2	nitro	ethyl	3, 4 – difluorophenyl
2	nitro	ethyl	3, 5 - difluorophenyl
2	nitro	ethyl	2 – chlorophenyl
2	nitro	ethyl	3 – chlorophenyl
2	nitro	ethyl	4 – chlorophenyl
	1 HILLO	i carat	i 4 – cinotopuenyi

### Table 4(continuation 6)

			D1	Z
5	m	R <sup>1</sup>	R <sup>3</sup>	
	2	nitro	ethyl	4 – methylphenyl
	2	nitro	ethyl	2 – methoxyphenyl
	2	nitro	ethyl	3 – methoxyphenyl
	2	nitro	ethyl	4 - methoxyphenyl
10	2	nitro	ethyl	2, 3 - dimethoxyphenyl
	2	nitro	cthyl	2, 4 - dimethoxyphenyl
	2	nitro	ethyl	2, 5 - dimethoxyphenyl
	2	nitro	ethyl	3, 4 – dimethoxyphenyl
	2	nitro	ethyl	3, 5 - dimethoxyphenyl
15	2	nitro	ethyl	3, 4 - ( methylenedioxy ) phenyl
	2	nitro	cthyl	2 – hydroxyphenyl
	2	nitro	ethyl	3 - hydroxyphenyl
	2	nitro	cthyl	4 – hydroxyphenyl
	2	nitro	cthyl	4 – aminophenyl
20	2	nitro	ethyl	4 - ( methylamino ) phenyl
	2	nitro	ethyl	4 - ( dimethylamino ) phenyl
	2	nitro	ethyl	4 – ( methylcarbamoyl ) phenyl
	2	nitro	ethyl	2-(acetyloxy) phenyl
25	2	nitro	ethyl	3 - ( acetyloxy ) phenyl
25	2	nitro	ethyl	4 – ( acetyloxy ) phenyl
	2	nitro	ethyl	2 - ( propionyloxy ) phenyl
	2	nitro	ethyl	3 - ( propionyloxy ) phenyl
	2	nitro	ethyl	4 - ( propionyloxy ) phenyl
30	2	nitro	ethyl	2 - trifluoromethylphenyl
	2	nitro	ethyl	3 - trifluoromethylphenyl
	2	nitro	ethyl	4 - trifluoromethylphenyl
	1	nitro	propyl	phenyl
	1	nitro	propyl	2 – fluorophenyl 3 – fluorophenyl
35	1	nitro	propyl	4 – fluorophenyl
	1	nitro	propyl	2, 4 – difluorophenyl
	1	nitro	propyl	2, 5 - difluorophenyl
	1	nitro	propyl	2, 6 - difluorophenyl
40	1	nitro	propyl	3, 4 – difluorophenyl
40	1	nitro	propyl propyl	3, 5 – difluorophenyl
	1	nitro	propyl	2 – chlorophenyl
	1	nitro nitro	propyl	3 – chlorophenyl
	1	nitro	propyl	4 - chlorophenyl
45	1		propyl	4 – methylphenyl
	1	nitro nitro	propyl	2 – methoxyphenyl
	1		propyl	3 – methoxyphenyl
	1	nitro nitro	propyl	4 – methoxyphenyl
	1	nitro	propyl	2, 3 – dimethoxyphenyl
50	1			2, 4 – dimethoxyphenyl
	1	nitro	propyl	2, 5 - dimethoxyphenyl
	1	nitro	propyl	3, 4 – dimethoxyphenyl
	1	nitro	propyl	3, 5 – dimethoxyphenyl
	1	nitro	propyl	3, 4 – (methylenedioxy) phenyl
55		nitro	propyl	J, T = ( mem remediately ) puelly!

# Table 4(continuation 7)

m	R <sup>1</sup>	R <sup>3</sup>	Z
1	nitro	propyl	2 - hydroxyphenyl
1	nitro	propyl	3 - hydroxyphenyl
1	nitro	propyl	4 - hydroxyphenyl
1	nitro	propyl	4 – aminophenyl
1	nitro	propyl	4 – ( methylamino ) phenyl
i	nitro	propyl	4 – (dimethylamino) phenyl
1	nitro	propyl	4 – ( methylcarbamoyl ) phenyl
1	nitro	propyl	2 - ( acetyloxy ) phenyl
1	nitro	propyl	3 - (acetyloxy) phenyl
1	nitro	propyl	4 – (acetyloxy) phenyl
1	nitro	propyl	2 – ( propionyloxy ) phenyl
1	nitro	propyl	3 – (propionyloxy) phenyl
1	nitro	propyl	4 – ( propionyloxy ) phenyl
1	nitro	propyl	2 - trifluoromethylphenyl
1	nitro	propyl	3 - trifluoromethylphenyl
1	nitro	propyl	4 - trifluoromethylphenyl
2	nitro	propyl	phenyl
2	nitro	propyl	2 – fluorophenyl
2	nitro	propyl	3 – fluorophenyl
2	nitro	propyl	4 – fluorophenyl
2	nitro	propyi	2, 4 – difluorophenyl
2	nitro	propyl	2, 5 – difluorophenyl
2	nitro	propyl	2, 6 – difluorophenyl
2	nitro	propyl	3, 4 – difluorophenyl
2	nitro	propyl	3, 5 – difluorophenyl
2	nitro	propyl	2 – chlorophenyl
2	nitro	propyl	3 - chlorophenyl
2	nitro	propyl	4 – chlorophenyl
2	nitro	propyl	4 - methylphenyl
2	nitro	propyl	2 - methoxyphenyl
2	nitro	propyl	3 - methoxyphenyl
2	nitro	propyl	4 - methoxyphenyl
2	nitro	propyl	2, 3 - dimethoxyphenyl
2	nitro	propyl	2, 4 - dimethoxyphenyl
2	nitro	propyl	2, 5 - dimethoxyphenyl
2	nitro	propyl	3, 4 - dimethoxyphenyl
2	nitro	propyl	3, 5 - dimethoxyphenyl
2	nitro	propyl	3, 4 - ( methylenedioxy ) phenyl
2	nitro	propyl	2 – hydroxyphenyl
2	nitro	propyl	3 – hydroxyphenyl
2	nitro	propyl	4 – hydroxyphenyl
2	nitro	propyl	4 – aminophenyl
2	nitro	propyl	4 - ( methylamino ) phenyl
2 2 2 2 2 2	nitro	propyl	4 - (dimethylamino) phenyl
2	nitro	propyl	4 – ( methylcarbamoyl ) phenyl
2	nitro	propyl	2 – ( acetyloxy ) phenyl
2	nitro	propyl	3 – (acetyloxy) phenyl
2	nitro	propyl	4 – (acetyloxy) phenyl
		1 5.25	

# Table 4(continuation 8)

	m	R¹	R³	Z
	2	nitro	ргоруі	2 – ( propionyloxy ) phenyl
	2	nitro	propyl	3 – ( propionyloxy ) phenyl
	2	nitro	propyl	4 – ( propionyloxy ) phenyl
	2	nitro	propyl	2 - trifluoromethylphenyl
	2	nitro	ргоруі	3 - trifluoromethylphenyl
	1	nitro	isopropyl	phenyl
ļ	1	nitro	isopropyl	2 – fluorophenyl
Ì	1	nitro	isopropyl	3 – fluorophenyl
	1	nitro	isopropyl	4 – fluorophenyl
	1	nitro	isopropyl	2, 4 - difluorophenyl
	]	nitro	isopropyl	2, 5 — difluorophenyl
	1	nitro	isopropyl	2, 6 – difluorophenyl
	1	nitro	isopropyl	3, 4 – difluorophenyl
	1	nitro	isopropyl	3, 5 - difluorophenyl
	1	nitro	isopropyl	2 – chlorophenyl
	1	nitro	isopropyl	3 – chlorophenyl
	1	nitro	isopropyl	4 – chlorophenyl
	1	nitro	isopropyl	4 - methylphenyl
	]	nitro	isopropyl	2 - methoxyphenyl
	1	nitro	isopropyl	3 - methoxyphenyl
	1	nitro	isopropyl	4 - methoxyphenyl
	1	nitro	isopropyl	2, 3 – dimethoxyphenyl
	1	nitro	isopropyl	2, 4 – dimethoxyphenyl
	1	nitro	isopropyl	2, 5 – dimethoxyphenyl
	1	nitro	isopropyl	3, 4 – dimethoxyphenyl 3, 5 – dimethoxyphenyl
	1	nitro	isopropyl	3, 4 – (methylenedioxy) phenyl
	1	nitro nitro	isopropyl isopropyl	2 - hydroxyphenyl
	1	nitro	isopropyl	3 - hydroxyphenyl
	1	nitro	isopropyl	4 - hydroxyphenyl
	1	nitro	isopropyl	4 – aminophenyl
	1	nitro	isopropyl	4 - (methylamino) phenyl
	1	nitro	isopropyl	4 - ( dimethylamino ) phenyl
	1	nitro	isopropyl	4 – ( methylcarbamoyl ) phenyl
	1	nitro	isopropyl	2 – ( acetyloxy ) phenyl
	1	nitro	isopropyl	3 – ( acetyloxy ) phenyl
	1	nitro	isopropyl	4 – ( acetyloxy ) phenyl
	1	nitro	isopropyl	2 - ( propionyloxy ) phenyl
	ı	nitro	isopropyl	3 - (propionyloxy) phenyl
	1	nitro	isopropyl	4 – ( propionyloxy ) phenyl
	1	nitro	isopropyl	2 - trifluoromethylphenyl
	1	nitro	isopropyl	3 - trifluoromethylphenyl
	1	nitro	isopropyl	4 - trifluoromethylphenyl
	2	nitro	isopropyl	phenyl
	2	nitro	isopropyl	2 – fluorophenyl
	2	nitro	isopropyl	3 – fluorophenyl
	2	nitro	isopropyl	4 – fluorophenyl
	2	nitro	isopropyl	2, 4 - difluorophenyl

# Table 4(continuation 9)

			1401	16 4(CONTINUATION 3)
	m	R¹	R³	Z
5	2	nitro	isopropyl	2, 5 – difluorophenyl
	2	nitro	isopropyl	2, 6 – difluorophenyl
	2	nitro	isopropyl	3, 4 - difluorophenyl
	2	nitro	isopropyl	3, 5 – difluorophenyl
10	2	nitro	isopropyl	2 – chlorophenyl
10	2	nitro	isopropyl	3 – chlorophenyl
	2	nitro	isopropyl	4 – chlorophenyl
	2	nitro	isopropyl	4 – methylphenyl
	2	nitro	isopropyl	2 - methoxyphenyl
15	2	nitro	isopropyl	3 - methoxyphenyl
	2	nitro	isopropyl	4 - methoxyphenyl
	2	nitro	isopropyl	2, 3 - dimethoxyphenyl
	2	nitro	isopropyl	2, 4 - dimethoxyphenyl
	2	nitro	isopropyl	2, 5 - dimethoxyphenyl
20	2	nitro	isopropyl	3, 4 - dimethoxyphenyl
	2	nitro	isopropyl	3, 5 - dimethoxyphenyl
		nitro	isopropyl	3, 4 - ( methylenedioxy ) phenyl
	2	nitro	isopropyl	2 – hydroxyphenyl
25	2	nitro	isopropyl	3 – hydroxyphenyl
25	2	nitro	isopropyl	4 – hydroxyphenyl
	2	nitro	isopropyl	4 – aminophenyl
	2	nitro	isopropyl	4 – (methylamino) phenyl
	2	nitro	isopropyl	4 - ( dimethylamino ) phenyl
30	2	nitro	isopropyl	4 - ( methylcarbamoyl ) phenyl
	2	nitro	isopropyl	2 - ( acetyloxy ) phenyl 3 - ( acetyloxy ) phenyl
	2	nitro	isopropyl isopropyl	4 – (acetyloxy) phenyl
	2	nitro nitro	isopropyl	2 - ( propionyloxy ) phenyl
	. 2	nitro	isopropyl	3 – (propionyloxy) phenyl
35	2	nitro	isopropyl	4 – (propionyloxy) phenyl
	2	nitro	isopropyl	2 - trifluoromethylphenyl
	2	nitro	isopropyl	3 - trifluoromethylphenyl
	2	nitro	isopropyl	4 - trifluoromethylphenyl
40	ī	nitro	butyl	phenyl
	1	nitro	butyl	2 – fluorophenyl
	1	nitro	butyl	3 – fluorophenyl
	1	nitro	butyl	4 – fluorophenyl
	1	nitro	butyl	2, 4 - difluorophenyl
45	1	nitro	butyl	2, 5 - difluorophenyl
	1	nitro	butyl	2, 6 - difluorophenyl
	1	nitro	butyl	3, 4 – difluorophenyl
	1	nitro	butyl	3, 5 – difluorophenyl
	1	nitro	butyl	2 – chlorophenyl
50	]	nitro	butyl	3 – chlorophenyl
	1	nitro	butyl	4 – chlorophenyl
	1	nitro	butyl	4 - methylphenyl
	1	nitro	butyl	2 – methoxyphenyl

butyl

nitro

5

10

20

25

30

35

3 - methoxyphenyl

# Table 4(continuation 10)

	m	R <sup>1</sup>	R <sup>3</sup>	Z
	1	nitro	butyl	4 – methoxyphenyl
	1	nitro	butyl	2, 3 - dimethoxyphenyl
	1	nitro	butyl	2, 4 - dimethoxyphenyl
	1	nitro	butyl	2, 5 - dimethoxyphenyl
	1	nitro	butyl	3, 4 - dimethoxyphenyl
i	1	nitro	butyl	3, 5 - dimethoxyphenyl
į	i	nitro	butyl	3, 4 - ( methylenedioxy ) phenyl
	1	nitro	butyl	2 – hydroxyphenyl
	1	nitro	butyl	3 – hydroxyphenyl
	1	nitro	butyl	4 – hydroxyphenyl
	1	nitro	butyl	4 – aminophenyl
	1	nitro	butyl	4 – ( methylamino ) phenyl
	1	nitro	butyl	4 – (dimethylamino) phenyl
	i	nitro	butyl	4 - ( methylcarbamoyl ) phenyl
			butyl	2 - ( acetyloxy ) phenyl
	1	nitro	butyl	3 – (acetyloxy) phenyl
	1	nitro nitro	butyl	4 – ( acetyloxy ) phenyl
	<del>                                     </del>		butyl	2 - ( propionyloxy ) phenyl
	1	nitro	butyl	3 - ( propionyloxy ) phenyl
	1	nitro	butyl	4 – ( propionyloxy ) phenyl
	1	nitro		2 - trifluoromethylphenyl
	1	nitro	butyl	3 - trifluoromethylphenyl
	1	nitro	butyl	4 - trifluoromethylphenyl
	1	nitro	butyl	phenyl
	2	nitro	butyl butyl	2 – fluorophenyl
	2	nitro	butyl	3 – fluorophenyl
	2	nitro nitro	butyl	4 – fluorophenyl
	2	nitro	butyl	2, 4 – difluorophenyl
	2	nitro	butyl	2, 5 – difluorophenyl
	2	nitro	butyl	2, 6 – difluorophenyl
	2	nitro	butyl	3, 4 – difluorophenyl
		nitro_	butyl	3, 5 – difluorophenyl
	2	nitro.	butyl	2 – chlorophenyl
	2	nitro	butyl	3 – chlorophenyl
1	2	nitro	butyl	4 – chlorophenyl
	2	nitro	butyl	4 - chlorophenyl
	2	nitro	butyl	2 - methoxyphenyl
	2	nitro	butyl	3 - methoxyphenyl
	2		butyl	4 - methoxyphenyl
•		nitro nitro	butyl	2, 3 – dimethoxyphenyl
	2			2, 4 – dimethoxyphenyl
	2	nitro	butyl	
	2	nitro	butyl	2, 5 – dimethoxyphenyl
•	2	nitro	butyl	3, 4 – dimethoxyphenyl
•	2	nitro	butyl	3, 5 – dimethoxyphenyl
	2	nitro	butyl	3, 4 - ( methylenedioxy ) phenyl
	2	nitro	butyl	2 - hydroxyphenyl
	2	nitro	butyl	3 – hydroxyphenyl
	2	nitro	butyl	4 – hydroxyphenyl
,				

### Table 4(continuation 11)

	ANDIO TODAMARION II)				
۲	m	R <sup>1</sup>	R³	Z	
	2	nitro	butyl	4 – aminophenyl	
	2	nitro	butyl	4 - ( methylamino ) phenyl	
r	2	nitro	butyl	4 - ( dimethylamino ) phenyl	
<u> </u>	2	nitro	butyl	4 - ( methylcarbamoyl ) phenyl	
<u> </u>	2	nitro	butyl	2 - ( acetyloxy ) phenyl	
<u> </u>	2	nitro	butyl	3 – ( acetyloxy ) phenyl	
F	2	nitro	butyl	4 - ( acetyloxy ) phenyl	
F	2	nitro	butyl	2 - ( propionyloxy ) phenyl	
F	2	nitro	butyl	3 – ( propionylexy ) phenyl	
	2	nitro	butyl	4 – ( propionyloxy ) phenyl	
<u> </u>	2	nitro	butyl	2 - trifluoromethylphenyl	
<u> </u>	2	nitro	butyl	3 - trifluoromethylphenyl	
<u> </u>	2	nitro	butyl	4 - trifluoromethylphenyl	
	1	nitro .	hydroxyethyl	phenyl	
	1	nitro	hydroxyethyl	2 – fluorophenyl	
<u> </u>	1	nitro	hydroxyethyl	3 - fluorophenyl	
	1	nitro	hydroxyethyl	4 – fluorophenyl	
	1	nitro	hydroxyethyl	2, 4 – difluorophenyl	
٢	1	nitro	bydroxyethyl	2, 5 – difluorophenyl	
Γ	1	nitro	hydroxyethyl	2, 6 – difluorophenyl	
	1	nitro	hydroxyethyl	3, 4 – difluorophenyl	
	1	nitro	hydroxyethyl	3, 5 – difluorophenyl	
	1	nitro	hydroxyethyl	2 – chlorophenyl	
	1	nitro	hydroxyethyl	3 – chlorophenyl	
	1	nitro	hydroxyethyl	4 – chlorophenyl	
	1	nitro	hydroxyethyl	4 – methylphenyl	
	1	nitro	hydroxyethyl	2 – methoxyphenyl	
	1	nitro	hydroxyethyl	3 – methoxyphenyl	
L	11	nitro	hydroxyethyl	4 - methoxyphenyl	
<u> </u>	1	nitro	hydroxyethyl	2, 3 – dimethoxyphenyl	
L	1	nitro	hydroxyethyl	2, 4 - dimethoxyphenyl	
<u> </u>	1	nitro	hydroxyethyl	2, 5 – dimethoxyphenyl	
<u></u>	1	nitro	hydroxyethyl	3, 4 – dimethoxyphenyl	
_	1	nitro	hydroxyethyl	3, 5 – dimethoxyphenyl	
<u></u>	<u> </u>	nitro	hydroxyethyl	3, 4 – (methylenedioxy) phenyl	
<u> </u>	1	nitro	hydroxyethyl	2 – hydroxyphenyl	
<u> </u>	1	nitro	hydroxyethyl	3 – hydroxyphenyl	
<u> </u>	1.	nitro	hydroxyethyl	4 – hydroxyphenyl	
<u> </u>	1	nitro	hydroxyethyl	4 – aminophenyl	
<u> </u>	1	nitro	hydroxyethyl	4 - (methylamino) phenyl	
<u> </u>	1	nitro	hydroxyethyl	4 – (dimethylamino) phenyl	
<u> </u> -	1	nitro	hydroxyethyl	4 – (methylcarbamoyl) phenyl	
L.	1	nitro	hydroxyethyl	2 – (acetyloxy) phenyl	
<u> </u> _	1	nitro	hydroxyethyl	3 – (acetyloxy) phenyl	
<u> </u>	1_	nitro	hydroxyethyl	4 – (acetyloxy) phenyl	
<b> </b> _		nitro	hydroxyethyl	2 - (propionyloxy) phenyl	
L	1	nitro	hydroxyethyl	3 – ( propionyloxy ) phenyl	

4 - ( propionyloxy ) phenyl

hydroxyethyl

nitro

### Table 4(continuation 12)

m	R1	R³	Z
	nitro	hydroxyethyl	2 - trifluoromethylphenyl
1	nitro	hydroxyethyl	3 - trifluoromethylphenyl
1	nitro	hydroxyethyl	4 - trifluoromethylphenyl
2	nitro	hydroxyethyl	phenyl
2	nitro	hydroxyethyl	2 – fluorophenyl
2	nitro	hydroxyethyl	3 – fluorophenyl
2	nitro	hydroxyethyl	4 – fluorophenyl
2	nitro	bydroxyethyl	2, 4 – difluorophenyl
2	nitro	bydroxyethyl	2, 5 - difluorophenyl
2	nitro	hydroxyethyl	2, 6 – difluorophenyl
	nitro	hydroxyethyl	3, 4 – difluorophenyl
2 2 2 2	nitro	hydroxyethyl	3, 5 - difluorophenyl
2	nitro	hydroxyethyl	2 – chlorophenyl
2	nitro	hydroxyethyl	3 – chlorophenyl
2	nitro	hydroxyethyl	4 – chlorophenyl
2	nitro	hydroxyethyl	4 – methylphenyl
2	nitro	hydroxyethyl	2 – methoxyphenyl
2	nitro	hydroxyethyl	3 – methoxyphenyl
2	nitro	hydroxyethyl	4 - methoxyphenyl
2.	nitro	hydroxyethyl	2, 3 - dimethoxyphenyl
2	nitro	hydroxyethyl	2, 4 - dimethoxyphenyl
2	nitro	hydroxyethyl	2, 5 - dimethoxyphenyl
2	nitro	hydroxyethyl	3, 4 - dimethoxyphenyl
2	nitro	hydroxyethyl	3, 5 - dimethoxyphenyl
2	nitro	hydroxyethyl	3, 4 - ( methylenedioxy ) phenyl
2	nitro	hydroxyethyl	2 – hydroxyphenyl
2	nitro	bydroxyethyl	3 – hydroxyphenyl
2	nitro	hydroxyethyl	4 – hydroxyphenyl
2	nitro	hydroxyethyl	4 – aminophenyl
	nitro	hydroxyethyl	4 - ( methylamino ) phenyl
2	nitro	hydroxyethyl	4 – ( dimethylamino ) phenyl
2	nitro	hydroxyethyl	4 – ( methylcarbamoyl ) phenyl
2	nitro	hydroxyethyl	2 - ( acetyloxy ) phenyl .
2	nitro	hydroxyethyl	3 - ( acetyloxy ) phenyl
2	nitro	hydroxyethyl	4 - ( acetyloxy ) phenyl
2	nitro	hydroxyethyl	2 – ( propionyloxy ) phenyl
2	nitro	hydroxyethyl	3 – ( propionyloxy ) phenyl
2	nitro	hydroxyethyl	4 – ( propionyloxy ) phenyl
2	nitro	hydroxyethyl	2 - trifluoromethylphenyl
2	nitro	hydroxyethyl	3 - trifluoromethylphenyl
2	nitro	hydroxyethyl	4 - trifluoromethylphenyl
1	nitro	methoxyethyl	phenyl
1	nitro	methoxyethyl	2 – fluorophenyl
1	nitro	methoxyethyl	3 – fluorophenyl
1	nitro	methoxyethyl	4 – fluorophenyl
1	nitro	methoxyethyl	2, 4 - difluorophenyl
T		1	2 ( 1'0 )
1	nitro	methoxyethyl methoxyethyl	2, 5 - difluorophenyl

# Table 4(continuation 13)

5		
10		
15		
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	rable 4(continuation 13)					
m	R1	R <sup>3</sup>	Z			
1	nitro	methoxyethyl	3, 4 – difluorophenyl			
1	nitro	methoxyethyl	3, 5 - difluorophenyl			
1	nitro	methoxyethyl	2 – chlorophenyl			
1	nitro	methoxyethyl	3 - chlorophenyl			
1	nitro	methoxyethyl	4 - chlorophenyl			
i	nitro	methoxyethyl	4 - methylphenyl			
1	nitro	methoxyethyl	2 – methoxyphenyl			
1	nitro	methoxyethyl	3 - methoxyphenyl			
1	nitro	methoxyethyl	4 - methoxyphenyl			
1	nitro	methoxyethyl	2, 3 – dimethoxyphenyl			
1	nitro	methoxyethyl	2, 4 - dimethoxyphenyl			
1	nitro	methoxyethyl	2, 5 – dimethoxyphenyl			
1	nitro	methoxyethyl	3, 4 – dimethoxyphenyl			
1	nitro	methoxyethyl	3, 5 – dimethoxyphenyl			
1	nitro	methoxyethyl	3, 4 – (methylenedioxy) phenyl			
1	nitro	methoxyethyl	2 – hydroxyphenyl			
1	nitro	methoxyethyl	3 – hydroxyphenyl			
1	nitro	methoxyethyl	4 – hydroxyphenyl			
1	nitro	methoxyethyl	4 – aminophenyl			
1	nitro	methoxyethyl	4 - (methylamino) phenyl			
1	nitro	methoxyethyl	4 – (dimethylamino) phenyl			
	nitro	methoxyethyl	4 - ( methylcarbamoyl ) phenyl			
1	nitro	methoxyethyl	2 – (acetyloxy) phenyl			
1	nitro	methoxyethyl	3 – (acetyloxy) phenyl			
1	nitro	methoxyethyl methoxyethyl	4 – ( acetyloxy ) phenyl			
	nitro		2 – ( propionyloxy ) phenyl			
1	nitro nitro	methoxyethyl methoxyethyl	3 – (propionyloxy) phenyl			
1		methoxyethyl	4 - ( propionyloxy ) phenyl 2 - trifluoromethylphenyl			
1	nitro nitro	methoxyethyl	3 - trifluoromethylphenyl			
1	nitro	methoxyethyl	4 - trifluoromethylphenyl			
2	nitro	methoxyethyl	phenyl			
2	nitro	methoxyethyl	2 – fluorophenyl			
2	nitro	methoxyethyl	3 – fluorophenyl			
2	nitro	methoxyethyl	4 – fluorophenyl			
2	nitro	methoxyethyl	2, 4 – difluorophenyl			
2	nitro	methoxyethyl	2, 5 – difluorophenyl			
	nitro	methoxyethyl	2, 6 – difluorophenyl			
2 2 2	nitro	methoxyethyl	3, 4 – difluorophenyl			
1 2	nitro	methoxyethyl	3, 5 – difluorophenyl			
2	nitro	methoxyethyl	2 – chlorophenyl			
2	nitro	methoxyethyl	3 – chlorophenyl			
2	nitro	methoxyethyl	4 - chlorophenyl			
2	nitro	methoxyethyl	4 – methylphenyl			
2	nitro	methoxyethyl	2 - methoxyphenyl			
2	nitro	methoxyethyl	3 - methoxyphenyl			
2		methoxyethyl	4 - methoxyphenyl			
	nitro					
2	nitro	methoxyethyl	2, 3 – dimethoxyphenyl			

# Table 4(continuation 14)

m	R <sup>1</sup>	- R <sup>3</sup>	Z
2	nitro	methoxyethyl	2, 4 - dimethoxyphenyl
2	nitro	methoxyethyl	2, 5 - dimethoxyphenyl
2	nitro	methoxyethyl	3, 4 - dimethoxyphenyl
2	nitro	methoxyethyl	3, 5 - dimethoxyphenyl
2	nitro	methoxyethyl	3, 4 - ( methylenedioxy ) phenyl
2	nitro	methoxyethyl	2 – hydroxyphenyl
2	nitro	methoxyethyl	3 – hydroxyphenyl
2	nitro	methoxyethyl	4 – hydroxyphenyl
2	nitro	methoxyethyl	4 - aminophenyl
2	nitro	methoxyethyl	4 - ( methylamino ) phenyl
2	pitro	methoxyethyl	4 - ( dimethylamino ) phenyl
2	nitro	methoxyethyl	4 - ( methylcarbamoyl ) phenyl
2	nitro	methoxyethyl	2 - ( acetyloxy ) phenyl
2	nitro	methoxyethyl	3-(acetyloxy) phenyl
2	nitro	methoxyethyl	4 - ( acetyloxy ) phenyl
2	nitro	methoxyethyl	2 – ( propionyloxy ) phenyl
2	nitro	methoxyethyl	3 – ( propionyloxy ) phenyl
2	nitro	methoxyethyl	4 – ( propionyloxy ) phenyl
2	nitro	methoxyethyl	2 - trifluoromethylphenyl
2	nitro	methoxyethyl	3 - trifluoromethylphenyl
2	aitro	methoxyethyl	4 - trifluoromethylphenyl
1	nitro	aminoethyl	phenyl
1	nitro	aminoethyl	2 – fluorophenyl
1	nitro	aminoethyl	3 – fluorophenyl
1	nitro	aminoethyl	4 – fluorophenyl
1	nitro	aminoethyl	2, 4 – difluorophenyl
1	nitro	aminoethyl	2, 5 – difluorophenyl
1	nitro	aminoethyl	2, 6 – difluorophenyl
1	nitro	aminoethyl	3, 4 - difluorophenyl
1	nitro	aminoethyl	3, 5 – difluorophenyl
1	nitro	aminoethyl	2 – chlorophenyl
1	nitro	aminoethyl	3 - chlorophenyl
1	nitro	aminoethyl	4 – chlorophenyl
1	nitro	aminoethyl	4 – methylphenyl
1	nitro	aminoethyl	2 - methoxyphenyl
1	nitro	aminoethyl	3 – methoxyphenyl
1	nitro	aminoethyl aminoethyl	4 – methoxyphenyl 2, 3 – dimethoxyphenyl
	nitro	aminoethyl	2, 4 – dimethoxyphenyl
1	nitro	aminoethyl	2, 4 - dimethoxyphenyl 2, 5 - dimethoxyphenyl
1	nitro	aminoethyl	
1	nitro		3, 4 - dimethoxyphenyl 3, 5 - dimethoxyphenyl
1	nitro	aminoethyl aminoethyl	
1			3, 4 – ( methylenedioxy ) phenyl
	nitro	aminoethyl	2 – hydroxyphenyl
1	nitro	aminoethyl	3 – hydroxyphenyl
1	nitro	aminoethyl	4 – hydroxyphenyl
1	nitro	aminoethyl	4 – aminophenyl
1	nitro	aminoethyl	4 – ( methylamino ) phenyl

### Table 4(continuation 15)

				((00011111011101111)
	m_	R <sup>1</sup>	R <sup>3</sup>	Z
	1	nitro	aminoethyl	4 – ( dimethylamino ) phenyl
	1	nitro	aminoethyl	4 - ( methylcarbamoyl ) phenyl
	ī	nitro	aminoethyl	2 - ( acetyloxy ) phenyl
	1	nitro	aminoethyl	3 - (acetyloxy) phenyl
	1	nitro	aminoethyl	4 - ( acetyloxy ) phenyl
	1	nitro	aminoethyl	2 – ( propionyloxy ) phenyl
	1	nitro	aminoethyl	3 – ( propionyloxy ) phenyl
	1	nitro	aminoethyl	4 – ( propionyloxy ) phenyl
	1	nitro	aminoethyl	2 - trifluoromethylphenyl
	1	nitro	aminoethyl	3 - trifluoromethylphenyl
	1	nitro	aminoethyl	4 - trifluoromethylphenyl
	2	nitro	aminoethyl	phenyl
	2	nitro	aminoethyl	2 – fluorophenyl
	2	nitro	aminoethyl	3 – fluorophenyl
	2	nitro	aminoethyl	4 – fluorophenyl
	2	nitro	aminoethyl	2, 4 – difluorophenyl
	2	nitro	aminoethyl	2, 5 – difluorophenyl
:	2	nitro	aminoethyl	2, 6 - difluorophenyl
	2	nitro	aminoethyl	3, 4 – difluorophenyl
	2	nitro	aminoethyl	3, 5 - difluorophenyl
	2	nitro	aminoethyl	2 - chlorophenyl
	2	nitro	aminoethyl	3 - chlorophenyl
i	2	nitro	aminoethyl	4 – chlorophenyl
	2	nitro	aminoethyl	4 - methylphenyl
i	2	nitro	aminoethyl	2 – methoxyphenyl
	2	nitro	aminoethyl	3 - methoxyphenyl
	2	pitro	aminoethyl	4 - methoxyphenyl
	2	nitro	aminoethyl	2, 3 - dimethoxyphenyl
	2	nitro	aminoethyl	2, 4 - dimethoxyphenyl
	2	nitro	aminoethyl	2, 5 - dimethoxyphenyl
	2	nitro	aminoethyl	3, 4 - dimethoxyphenyl
	2 ·	nitro	aminoethyl	3, 5 - dimethoxyphenyl
	2	nitro	aminoethyl	3, 4 – ( methylenedioxy ) phenyl
	2	nitro	aminoethyl	2 – hydroxyphenyl
	2	nitro	aminoethyl	3 – hydroxyphenyl
	2	nitro	aminoethyl	4 - hydroxyphenyl
	2	nitro	aminoethyl	4 – aminophenyl
	2	pitro	aminoethyl	4 – ( methylamino ) phenyl
		nitro	aminoethyl	4 - ( dimethylamino ) phenyl
	2	nitro	aminoethyl	4 - ( methylcarbamoyl ) phenyl
	2	nitro	aminoethyl	2 – ( acetyloxy ) phenyl
	2	nitro	aminoethyl	3 – ( acetyloxy ) phenyl
	2	nitro	aminoethyl	4 – ( acetyloxy ) phenyl
	2	nitro	aminoethyl	2 – ( propionyloxy ) phenyl
	2	nitro	aminoethyl	3 – ( propionyloxy ) phenyl
i	2	nitro	aminocthyl	4 – ( propionyloxy ) phenyl
	2	nitro	aminoethyl	2 - trifluoromethylphenyl
Į	2	nitro	aminoethyl	3 - trifluoromethylphenyl

Table 4(continuation 16)

				•
_	m	R <sup>1</sup>	R³	Z
5	2	nitro	aminoethyl	4 - trifluoromethylphenyl
	1	nitro	formyl	phenyl
	1	nitro	formyl	2 – fluorophenyl
	i	nitro	formyl	3 – fluorophenyl
10	i	nitro	formyl	4 – fluorophenyl
	1	nitro	formyl	2, 4 – difluorophenyl
	1	nitro	formyl	2, 5 – difluorophenyl
		nitro	formyl	2, 6 – difluorophenyl
	Hi-	nitro	formyl	3, 4 - difluorophenyl
15	1	nitro	formyl	3, 5 – difluorophenyl
	1	nitro	formyl	2 - chlorophenyl
	1	nitro	formyl	3 – chlorophenyl
	1	nitro	formyl	4 - chlorophenyl
	1	nitro	formyl	4 – methylphenyl
20	1	nitro	formyl	2 - methoxyphenyl
	1	nitro	formyl	3 - methoxyphenyl
	i	nitro	formyl	4 - methoxyphenyl
	1	nitro	formyl	2, 3 - dimethoxyphenyl
ne.	i	nitro	formyl	2, 4 - dimethoxyphenyl
25	1	nitro	formyl	2, 5 - dimethoxyphenyl
	1	nitro	formyl	3, 4 – dimethoxyphenyl
	1	nitro	formyl	3, 5 - dimethoxyphenyl
	1	nitro	formyl	3, 4 - ( methylenedioxy ) phenyl
30	1	nitro	formyl	2 – hydroxyphenyl
	1	nitro	formyl	3 – hydroxyphenyl
	1	nitro	formyl	4 – hydroxyphenyl
	1	nitro	formyl	4 - aminophenyl
	1	nitro	formyl	4 - ( methylamino ) phenyl
35	1	nitro	formyl	4 - (dimethylamino) phenyl
	1	nitro	formyl	4 - ( methylcarbamoyi ) phenyl
	1	nitro	formyl	2 – (acetyloxy) phenyl
	1	nitro	formyl	3 – ( acetyloxy ) phenyl
	1	nitro	formyl	4 - (acetyloxy) phenyl
40	1	nitro	formyl	2 – (propionyloxy) phenyl
	1	nitro	formyl	3 - ( propionyloxy ) phenyl 4 - ( propionyloxy ) phenyl
	1	nitro	formyl	
	1	nitro	formyl	2 - trifluoromethylphenyl 3 - trifluoromethylphenyl
45	1	nitro	formyl	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
<del></del>	1	nitro	formyl	4 - trifluoromethylphenyl
	2	nitro	formyl	phenyl
	2	nitro	formyl	2 – fluorophenyl
50	2	nitro	formyl	3 – fluorophenyl
	2	nitro	formyl	4 – fluorophenyl
	2	nitro	formyl	2, 4 – difluorophenyl
	2	nitro	formyl	2, 5 – difluorophenyl
	2	nitro	formyl	2, 6 – difluorophenyl
	2	nitro	formyl	3, 4 – difluorophenyl
55	2	nitro	formyl	3, 5 - difluorophenyl

## Table 4(continuation 17)

m	R1	R <sup>3</sup>	Z
2	nitro	formyl	2 – chlorophenyl
2			
	nitro	formyl	3 – chlorophenyl
2	nitro	formyl	4 – chlorophenyl
2	nitro	formyl	4 - methylphenyl
2	nitro	formyl	2 - methoxyphenyl
2	nitro	formyl	3 - methoxyphenyl
2	nitro	formyl	4 - methoxyphenyl
2	nitro	formyl	· 2, 3 – dimethoxyphenyl
2	nitro	formyl	2, 4 - dimethoxyphenyl
2	nitro	formyl	2, 5 - dimethoxyphenyl
2	nitro	formyl	3, 4 - dimethoxyphenyl
2 2	nitro	formyl	3, 5 - dimethoxyphenyl
	nitro	formyl	3, 4 – ( methylenedioxy ) phenyl
2	nitro	formyl	2 – hydroxyphenyl
2	nitro	formyl	3 – hydroxyphenyl
2	nitro	formyl	4 - hydroxyphenyl
2	nitro	formyl	4 – aminophenyl
2	nitro	formyl	4 – ( methylamino ) phenyl
2	nitro	formyl	4 – ( dimethylamino ) phenyl
2	nitro	formyl	4 - ( methylcarbamoyl ) phenyl
2	nitro	formyl	2 - ( acetyloxy ) phenyl
2	nitro	formyl	3 - ( acetyloxy ) phenyl
2	nitro	formyl	4 - ( acetyloxy ) phenyl
2	nitro	formyl	2 – ( propionyloxy ) phenyl
2	nitro	formyl	3 – ( propionyloxy ) phenyl
2	nitro	formyl	4 – ( propionyloxy ) phenyl
2	nitro	formyl	2 - trifluoromethylphenyl
2	nitro	formyl	3 - trifluoromethylphenyl
2	nitro	formyl	4 - trifluoromethylphenyl
1	nitro	acetyl	phenyl
1	nitro	acetyl	2 – fluorophenyl
1	nitro	acetyl	3 – fluorophenyl
1	nitro	acetyl	4 – fluorophenyl
1	nitro	acetyl	2, 4 – difluorophenyl
1	nitro	acetyl	2, 5 - difluorophenyl
1	nitro	acetyl	2, 6 - difluorophenyl
1	nitro	acetyl	3, 4 - difluorophenyl
i	nitro	acetyl	3, 5 – difluorophenyl
1	nitro	acetyl	2 - chlorophenyl
1	nitro	acetyl	3 - chlorophenyl
1	nitro	acetyl	4 - chlorophenyl
1	nitro	acetyl	4 - methylphenyl
1	nitro	acetyl	2 - methoxyphenyl
1	nitro	acetyl	3 – methoxyphenyl
i	nitro	acetyl	4 - methoxyphenyl
1	nitro	acetyl	2, 3 – dimethoxyphenyl
1	nitro	acetyl	2, 4 - dimethoxyphenyl
1	nitro	acetyl	2, 5 - dimethoxyphenyl

## Table 4(continuation 18)

m	R <sup>1</sup>	R <sup>3</sup>	Z
1	nitro	acetyl	3, 4 - dimethoxyphenyl
1	nitro	acetyl	3, 5 - dimethoxyphenyl
1	nitro	acetyl	3, 4 - ( methylenedioxy ) phenyl
1	nitro	acetyl	2 - hydroxyphenyl
1	nitro	acetyl	3 - hydroxyphenyl
i	nitro	acetyl	4 – hydroxyphenyl
i	nitro	acetyl	4 – aminophenyl
1	nitro	acetyl	4 – ( methylamino ) phenyl
1	nitro	acetyl	4 – (dimethylamino) phenyl
l i	nitro	acetyl	4 - ( methylcarbamoyl ) phenyl
1	nitro	acetyl	2 – (acetyloxy) phenyl
1	nitro	acetyl	3 – (acetyloxy) phenyl
1	nitro	acetyl	4 – (acetyloxy) phenyl
1	nitro	acetyl	2 – ( propionyloxy ) phenyl
1	nitro	acetyl	3 – (propionyloxy) phenyl
1-1-	nitro	acetyl	4 – ( propionyloxy ) phenyl
1	nitro	acetyl	2 - trifluoromethylphenyl
1	nitro	acetyl	3 - trifluoromethylphenyl
1	nitro	acetyl	4 - trifluoromethylphenyl
2	nitro	acetyl	phenyl
	nitro	acetyl	2 – fluorophenyl
2	nitro	acetyl	3 – fluorophenyl
2	nitro	acetyl	4 – fluorophenyl
2	nitro	acetyl	2, 4 – difluorophenyl
2	nitro	acetyl	2, 5 – difluorophenyl
2	nitro	acetyl	2, 6 – difluorophenyl
2	nitro	acetyl	3, 4 – difluorophenyl
2	nitro	acetyl	3, 5 – difluorophenyl
	nitro	acetyl	2 - chlorophenyl
2	nitro	acetyl	3 - chlorophenyl
	nitro	acetyl	4 – chlorophenyl
2	nitro	acetyl	4 – methylphenyl
2	nitro	acetyl	2 – methoxyphenyl
2	nitro	acetyl	3 – methoxyphenyl
2	nitro	acetyl	4 – methoxyphenyl
2	nitro	acetyl	2, 3 - dimethoxyphenyl
2	nitro	acetyl	2, 4 - dimethoxyphenyl
2	nitro	acetyl	2, 5 - dimethoxyphenyl
2	nitro	acetyl	3, 4 - dimethoxyphenyl
2	nitro	acetyl	3, 5 - dimethoxyphenyl
2 2 2 2 2 2	nitro	acetyl	3, 4 - ( methylenedioxy ) phenyl
2	nitro	acetyl	2 – hydroxyphenyl
$\frac{1}{2}$	nitro	acetyl	3 – hydroxyphenyl
2	nitro	acetyl	4 – hydroxyphenyl
1 2	nitro	acetyl	4 – aminophenyl
2	nitro	acetyl	4 – ( methylamino ) phenyl
2	nitro	acetyl	4 - (dimethylamino) phenyl
2	nitro	acetyl	4 - (methylcarbamoyl) phenyl
	mito	accivi	1 - ( nicinyicaroamoyi ) phenyi

# Table 4(continuation 19)

m	R1	R³	Z
2	nitro	acetyl	2 - ( acetyloxy ) phenyl
2	nitro	acetyl	3 - ( acetyloxy ) phenyl
2	nitro	acetyl	4 – ( acetyloxy ) phenyl
2	nitro	acetyl	2 - ( propionyloxy ) phenyl
2	nitro	acetyl	3 – ( propionyloxy ) phenyl
2	nitro	acetyl	4 - ( propionyloxy ) phenyl
2	nitro	acetyl	2 - trifluoromethylphenyl
2	nitro	acetyl	3 - trifluoromethylphenyl
2	nitro	acetyl	4 - trifluoromethylphenyl
1	nitro	propionyl	phenyl
1	nitro	propionyl	2 – fluorophenyl
1	nitro	propionyl	3 – fluorophenyl
1	nitro	propionyl	4 – fluorophenyl
1	nitro	propionyl	2, 4 – difluorophenyl
1	nitro	propionyl	2, 5 - difluorophenyl
1	nitro	propionyl	2, 6 – difluorophenyl
1	nitro	propionyl	3, 4 - difluorophenyl
1	nitro	propionyl	3, 5 — difluorophenyl
1	nitro	propionyl	2 – chlorophenyl
1	nitro	propionyl	3 – chlorophenyl
1	nitro	propionyl	4 – chlorophenyl
1	nitro	propionyl	4 – methylphenyl
1	nitro	propionyl	2 - methoxyphenyl
1	nitro	propionyl	3 - methoxyphenyl
1	nitro	propionyl	4 - methoxyphenyl
1	nitro	propionyl	2, 3 – dimethoxyphenyl
1	nitro	propionyl	2, 4 – dimethoxyphenyl
1	nitro	propionyl	2, 5 – dimethoxyphenyl
1	nitro	propionyl	3, 4 – dimethoxyphenyl
1	nitro mitro	propionyl	3, 5 – dimethoxyphenyl
	nitro nitro	propionyl	3, 4 – ( methylenedioxy ) phenyl 2 – hydroxyphenyl
1	nitro	propionyl propionyl	3 – hydroxyphenyl
	nitro	propionyl	4 – hydroxyphenyl
1	nitro	propionyl	4 – nydroxyphenyl 4 – aminophenyl
1	nitro	propionyl	4 – ( methylamino ) phenyl
1	nitro	propionyl	4 – (dimethylamino) phenyl
i	nitro	propionyl	4 – ( methylcarbamoyl ) phenyl
1	nitro	propionyl	2 – ( acetyloxy ) phenyl
1	nitro	propionyl	3 – (acetyloxy) phenyl
1	nitro	propionyl	4 – ( acetyloxy ) phenyl
i	nitro	propionyl	2 - ( propionyloxy ) phenyl
1	nitro	propionyl	3 – (propionyloxy) phenyl
i	nitro	propionyl	4 – (propionyloxy) phenyl
1	nitro	propionyl	2 - trifluoromethylphenyl
i	nitro	propionyl	3 - trifluoromethylphenyl
i	nitro	propionyl	4 - trifluoromethylphenyl
	mao	Propiony!	4 - arragionicalyiphenyi

### Table 4(continuation 20)

		Table 4(continuation 20)			
_	m	R¹	R <sup>3</sup>	Z	
5	2	nitro	propionyl	phenyl	
	2	nitro	propionyl	2 – fluorophenyl	
	2	nitro	propionyl	3 – fluorophenyl	
	2	nitro	propionyl	4 – fluorophenyl	
10	2	nitro	propionyl	2, 4 - difluorophenyl	
	2	nitro	propionyl	2, 5 - difluorophenyl	
	2	nitro	propionyl	2, 6 – difluorophenyl	
	2	nitro	propionyl	3, 4 - difluorophenyl	
45	2	nitro	propionyl	3, 5 – difluorophenyl	
15	2	nitro	propionyl	2 - chlorophenyl	
	2	nitro	propionyl	3 – chlorophenyl	
	2	nitro	propionyl	4 - chlorophenyl	
	2	nitro	propionyl	4 - methylphenyl	
20	2	nitro	propionyl	2 - methoxyphenyl	
	2	nitro	propionyl	3 – methoxyphenyl	
	2	nitro	propionyl	4 – methoxyphenyl	
	2	nitro	propionyl	2, 3 - dimethoxyphenyl	
	2	nitro	propionyl	2, 4 - dimethoxyphenyl	
25	2	nitro	propionyl	2, 5 - dimethoxyphenyl	
	2	nitro	propionyl	3, 4 - dimethoxyphenyl	
	2	nitro	propionyl	3, 5 - dimethoxyphenyl	
	2	nitro	propionyl	3, 4 – ( methylenedioxy ) phenyl	
30	2	nitro	propionyl	2 – hydroxyphenyl	
	2	nitro	propionyl	3 – hydroxyphenyl	
	2	nitro	propionyl	4 – hydroxyphenyl	
	2	nitro	propionyl	4 – aminophenyl	
	2	nitro	propionyl	4 - ( methylamino ) phenyl	
35	2	nitro	propionyl	4 – ( dimethylamino ) phenyl	
	2	<u>nitro</u>	propionyl	4 – ( methylcarbamoyl ) phenyl	
	2	nitro	propionyl	2 – ( acetyloxy ) phenyl	
	2	nitro	propionyl	3 - (acetyloxy) phenyl	
40	2	nitro	propionyl	4 - ( acetyloxy ) phenyl	
70	2	nitro	propionyl	2 – ( propionyloxy ) phenyl	
	2	nitro	propionyl	3 – ( propionyloxy ) phenyl	
	2	nitro	propionyl	4 – ( propionyloxy ) phenyl	
	2	nitro	propionyl	2 - trifluoromethylphenyl	
45	2	nitro	propionyl	3 - trifluoromethylphenyl	
		•••		4 Aut Clare and a start at a sense	

propionyl

nitro

50

55

4 - trifluoromethylphenyl

Table 5

 $R^1$  N N N

## Each substituent in the formula above is as follows:

<u> </u>		7
R <sup>1</sup>	R <sup>3</sup>	Z
nitro	amino	phenyl
nitro	amino	2 – fluorophenyl
nitro	amino	3 – fluorophenyl
nitro	amino	4 - fluorophenyl
nitro	amino	2, 4 - difluorophenyl
nitro	amino	2, 5 - difluorophenyl
nitro ·	amino	2, 6 - difluorophenyl
nitro	amino	3, 4 – difluorophenyl
nitro	amino	3, 5 – difluorophenyl
nitro	amino	2 – chlorophenyl
nitro	amino	3 – chlorophenyl
nitro	amino	4 – chlorophenyl
nitro	amino	2, 4 – dichlorophenyl
nitro	amino	3, 4 - dichlorophenyl
nitro	amino	2 – bromophenyl
nitro	amino	3 – bromophenyl
nitro	amino	4 – bromophenyl
nitro	amino	2 – methylphenyl
nitro	amino	3 – methylphenyl
nitro	amino	4 methylphenyl
nitro	amino	2 - methoxyphenyl
nitro	amino	3 – methoxyphenyl
nitro	amino	4 – methoxyphenyl
nitro	amino	2, 3 - dimethoxyphenyl
nitro	amino	2, 4 - dimethoxyphenyl
nitro	amino	3, 4 - dimethoxyphenyl
nitro	amino	3, 5 - dimethoxyphenyl
nitro	amino	3, 4 – ( methylenedioxy ) phenyl
nitro	amino	3, 4 - (ethylenedioxy) phenyl
nitro	amino	2 – hydroxyphenyl
nitro	amino	3 – hydroxyphenyl
nitro	amino	4 – hydroxyphenyl
nitro	amino	2 – aminophenyl
nitro	amino	3 – aminophenyl
nitro	amino	4 – aminophenyl
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## Table 5(continuation 1)

R¹	R³	Z
nitro	amino	2 - ( methylamino ) phenyl
nitro	amino	3 - ( methylamino ) phenyl
nitro	amino	4 – ( methylamino ) phenyl
nitro	amino	2 – (dimethylamino) phenyl
nitro	amino	3 - (dimethylamino) phenyl
	amino	4 – (dimethylamino) phenyl
nitro nitro	amino	2 – carboxyphenyl
nitro	amino	3 – carboxyphenyl
nitro	amino	4 – carboxyphenyl
nitro	amino	2 - ( methylcarbamoyl ) phenyl
nitro	onims	3 - ( methylcarbamoyl ) phenyl
nitro	amino	4 – ( methylcarbamoyl ) phenyl
nitro	amino	2 - ( methoxycarbonyl ) phenyl
nitro	amino	3 - ( methoxycarbonyl ) phenyl
nitro	amino	4 – ( methoxycarbonyl ) phenyl
nitro	amino	2 - (ethoxycarbonyl) phenyl
nitro	amino	3 - ( ethoxycarbonyl ) phenyl
nitro	amino	4 - ( ethoxycarbonyl ) phenyl
nitro	amino	2 – ( acetyloxy ) phenyl
nitro	amino	3 - ( acetyloxy ) phenyl
nitro	amino	4 – ( acetyloxy ) phenyl
nitro	amino	2 – ( propionyloxy ) phenyl
nitro	amino	3 – ( propionyloxy ) phenyl
nitro	amino	4 – ( propionyloxy ) phenyl
nitro	amino	2 - trifluoromethylphenyl
nitro	amino	3 - trifluoromethylphenyl
nitro	amino	4 - trifluoromethylphenyl
nitro	amino	· . 2 – thienyl
nitro	amino	3 – thienyl
nitro	amino	2 – furyl
nitro	amino	3 - furyl
pitro	amino	2 – pyridyl
nitro	amino	3 – pyridyl
nitro	amino	4 – pyridyl
nitro	aminomethyl	phenyl
nitro	aminomethyl	2 – fluorophenyl
nitro	aminomethyl	3 — fluorophenyl
nitro	aminomethyl	4 — fluorophenyl
nitro	aminomethyl	2, 4 - difluorophenyl
nitro	aminomethyl	2, 5 - difluorophenyl
nitro	aminomethyl	2, 6 - difluorophenyl
nitro	aminomethyl	3, 4 - difluorophenyl
nitro	aminomethyl	3, 5 - difluorophenyl
nitro	aminomethyl	2 - chlorophenyl
nitro	aminomethyl	3 – chlorophenyl
nitro	aminomethyl	4 - chlorophenyl
nitro	aminomethyl	2, 4 – dichlorophenyl
nitro	aminomethyl	3, 4 – dichlorophenyl
uluo	emmonicin Ar	J, 4 — dichiolophenyi

Table 5(continuation 2)

R¹	R3	Z
nitro	aminomethyl	2 – bromophenyl
nitro	aminomethyl	3 - bromophenyl
nitro	aminomethyl	4 – bromophenyl
nitro	aminomethyl	2 - methylphenyl
nitro	aminomethyl	3 - methylphenyl
nitro	aminomethyl	4 - methylphenyl
nitro	aminomethyl	2 - methoxyphenyl
nitro	aminomethyl	3 - methoxyphenyl
nitro	aminomethyl	4 – methoxyphenyl
nitro	aminomethyl	2, 3 – dimethoxyphenyl
nitro	aminomethyl	2, 4 – dimethoxyphenyl
nitro	aminomethyl	3, 4 – dimethoxyphenyl
nitro	aminomethyl	3, 5 – dimethoxyphenyl
nitro	aminomethyl	3, 4 – (methylenedioxy) phenyl
nitro	aminomethyl	3, 4 – (ethylenedioxy) phenyl
nitro	aminomethyl	2 - hydroxyphenyl
nitro	aminomethyl	3 – hydroxyphenyl
nitro	aminomethyl	4 - hydroxyphenyl
nitro	aminomethyl	2 – aminophenyl
nitro	aminomethyl	3 – aminophenyl
nitro	aminomethyl	4 - aminophenyl
nitro	aminomethyl	2 – ( methylamino ) phenyl
nitro	aminomethyl	3 – ( methylamino ) phenyl
nitro	aminomethyl	4 – (methylamino) phenyl
nitro	aminomethyl	2 - ( dimethylamino ) phenyl
nitro	aminomethyl	3 – (dimethylamino) phenyl
nitro	aminomethyl	4 – ( dimethylamino ) phenyl
nitro	aminomethyl	2 - carboxyphenyl
nitro	aminomethyl	3 - carboxyphenyl
nitro	aminomethyl	4 – carboxyphenyl
nitro	aminomethyl	2 – (methylcarbamoyl) phenyl
nitro	aminomethyl	3 – (methylcarbamoyl) phenyl
nitro	aminomethyl	4 – (methylcarbamoyl) phenyl
nitro	aminomethyl	2 - ( methoxycarbonyl ) phenyl
nitro	aminomethyl	3 – (methoxycarbonyl) phenyl
nitro	aminomethyl	4 – (methoxycarbonyl) phenyl
nitro	aminomethyl	2 – ( ethoxycarbonyl ) phenyl
nitro	aminomethyl	3 – (ethoxycarbonyl) phenyl
nitro	aminomethyl	4 – (ethoxycarbonyl) phenyl
nitro	aminomethyl	2 – (acetyloxy) phenyl
nitro	aminomethyl	3 – ( acetyloxy ) phenyl
nitro	aminomethyl	4 – (acetyloxy) phenyl
nitro	aminomethyl	2 - ( propionyloxy ) phenyl
nitro	aminomethyl	3 – (propionyloxy) phenyl
nitro	aminomethyl	4 - (propionyloxy) phenyl
nitro	aminomethyl	2 - trifluoromethylphenyl
nitro	aminomethyl	3 - trifluoromethylphenyl
nitro	aminomethyl	4 - trifluoromethylphenyl
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## Table 5(continuation 3)

R1	R <sup>3</sup>	Z
nitro	aminomethyl	2 – thienyl
nitro	aminomethyl	3 - thienyl
nitro	aminomethyl	2 – furyl
nitro	aminomethyl	3 – furyl
nitro	aminomethyl	2 – pyridyl
nitro	aminomethyl	3 – pyridyl
pitro	aminomethyl	4 – pyridyl

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R<sup>1</sup> N

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Each substituent in the formula above is as follows:

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R3 RI nitro amino phenyl 2 - fluorophenyl amino nitro 3 - fluorophenyl nitro amino 4 - fluorophenyl nitro amino nitro amino 2, 4 - difluorophenyl 2, 5 - difluorophenyl nitro amino 2, 6 - difluorophenyl nitro amino 3, 4 - difluorophenyl nitro amino nitro amino 3, 5 - difluorophenyl 2 - chlorophenyl amino nitro 3 - chlorophenyl nitro amino amino 4 - chlorophenyl nitro 2, 4 - dichlorophenyl nitro amino 3, 4 - dichlorophenyl nitro amino 2 - bromophenyl nitro amino 3 - bromophenyl nitro amino 4 - bromophenyl nitro amino 2 - methylphenyl nitro amino 3 - methylphenyl nitro amino 4 - methylphenyl nitro amino 2 - methoxyphenyl nitro amino 3 - methoxyphenyl nitro amino 4 - methoxyphenyl nitro amino 2, 3 - dimethoxyphenyl nitro amino amino 2, 4 - dimethoxyphenyl nitro 3, 4 - dimethoxyphenyl nitro amino 3, 5 - dimethoxyphenyl nitro amino nitro amino 3, 4 - ( methylenedioxy ) phenyl 3, 4 - (ethylenedioxy) phenyl nitro amino nitro amino 2 - hydroxyphenyl 3 - hydroxyphenyl nitro amino 4 - hydroxyphenyl nitro amino nitro amino 2 - aminophenyl 3 - aminophenyl nitro amino 4 - aminophenyl nitro amino

### Table 6(continuation 1)

ſ	R <sup>1</sup>	R³	Z
	nitro	amino	2 - ( methylamino ) phenyl
İ	nitro	amino	3 - ( methylamino ) phenyl
	nitro	amino	4 - ( methylamino ) phenyl
	nitro	amino	2 - ( dimethylamino ) phenyl
	nitro	amino	3 - (dimethylamino) phenyl
	nitro	amino	4 - ( dimethylamino ) phenyl
	nitro	amino	2 - carboxyphenyl
	nitro	amino	3 - carboxyphenyl
	nitro	amino	4 - carboxyphenyl
	nitro	amino	2 - ( methylcarbamoyl ) phenyl
	nitro	amino	3 - ( methylcarbamoyl ) phenyl
	nitro	amino	4 - ( methylcarbamoyl ) phenyl
	nitro	amino	2 - ( methoxycarbonyl ) phenyl
	nitro	amino	3 - ( methoxycarbonyl ) phenyl
	nitro	amino	4 - ( methoxycarbonyl ) phenyl
	nitro	amino	2 - ( ethoxycarbonyl ) phenyl
	nitro	amino	3 - ( ethoxycarbonyl ) phenyl
	nitro	amino	4 - ( ethoxycarbonyl ) phenyl
	nitro	amino	2 – ( acetyloxy ) phenyl
	nitro	amino	3 - ( acetyloxy ) phenyl
	nitro	amino	4 – ( acetyloxy ) phenyl
	nitro	arnino	2 – (propionyloxy) phenyl
	nitro	amino	3 – (propionyloxy) phenyl
	nitro	amino	4 – ( propionyloxy ) phenyl
	nitro	amino	2 - trifluoromethylphenyl
	nitro	amino	3 - trifluoromethylphenyl
	nitro	amino	4 - trifluoromethylphenyl
	nitro	amino	2 – thienyl
	nitro	amino	3 – thienyl
	nitro	amino	2 – furyl
	nitro	amino	3 – furyl
	nitro	amino	2 – pyridyl
	nitro	amino	3 – pyridyl
	nitro	amino	4 – pyridyl
	nitro	aminomethyl	phenyl
	nitro	aminomethyl	2 – fluorophenyl
	nitro	aminomethyl	3 – fluorophenyl
	nitro	aminomethyl	4 – fluorophenyl
	nitro	aminomethyl	2, 4 – difluorophenyl
	nitro	aminomethyl	2, 5 - difluorophenyl
	nitro	aminomethyl	2, 6 - difluorophenyl
	nitro	aminomethyl	3, 4 – difluorophenyl
	nitro	aminomethyl	3, 5 – difluorophenyl
	nitro	aminomethyl	
	nitro	aminomethyl	3, 4 – dichlorophenyl

## Table 6(continuation 2)

R1	R³	Z
nitro	aminomethyl	2 - bromophenyl
nitro	aminomethyl	3 – bromophenyl
nitro	aminomethyl	4 - bromophenyl
nitro	aminomethyl	2 - methylphenyl
nitro	aminomethyl	3 – methylphenyl
nitro	aminomethyl	4 – methylphenyl
nitro	aminomethyl	2 - methoxyphenyl
nitro	aminomethyl	3 – methoxyphenyl
nitro	aminomethyl	4 - methoxyphenyl
nitro	aminomethyl	2, 3 – dimethoxyphenyl
nitro	aminomethyl	2, 4 – dimethoxyphenyl
nitro	aminomethyl	3, 4 – dimethoxyphenyl
nitro	aminomethyl	3, 5 – dimethoxyphenyl
nitro	aminomethyl	3,4 - (methylenedioxy) phenyl
nitro	aminomethyl	3, 4 – (ethylenedioxy) phenyl
nitro	aminomethyl	2 – hydroxyphenyl
nitro	aminomethyl	3 – hydroxyphenyl
nitro	aminomethyl	4 – hydroxyphenyl
nitro	aminomethyl	2 – aminophenyl
nitro	aminomethyl	3 - aminophenyl
nitro	aminomethyl	4 – aminophenyl
nitro	aminomethyl	2 - ( methylamino ) phenyl
nitro	aminomethyl	.3 - ( methylamino ) phenyl
nitro	aminomethyl	4 - ( methylamino ) phenyl
nitro	aminomethyl	2 – (dimethylamino) phenyl
nitro	aminomethyl	3 - (dimethylamino) phenyl
nitro	aminomethyl	4 - ( dimethylamino ) phenyl
nitro	aminomethyl	2 – carboxyphenyl
nitro	aminomethyl	3 – carboxyphenyl
nitro	aminomethyl	4 – carboxyphenyl
nitro	aminomethyl	2 - (methylcarbamoyl) phenyl
nitro	aminomethyl	3 - (methylcarbamoyl) phenyl
nitro	aminomethyl	4 - (methylcarbamoyl) phenyl
nitro	aminomethyl	2 – (methoxycarbonyl) phenyl
nitro	aminomethyl	3 - (methoxycarbonyl) phenyl
nitro	aminomethyl	4 – (methoxycarbonyl) phenyl
nitro	aminomethyl	2 – (ethoxycarbonyl) phenyl
nitro	aminomethyl	3 – (ethoxycarbonyl) phenyl
nitro	aminomethyl	4 - (ethoxycarbonyl) phenyl
nitro	aminomethyl	2 – (acetyloxy) phenyl
nitro	aminomethyl	3 - ( acetyloxy ) phenyl
nitro	aminomethyl	4 - ( acetyloxy ) phenyl
nitro	aminomethyl	2 – ( propionyloxy ) phenyl
nitro	aminomethyl	3 – ( propionyloxy ) phenyl
nitro	aminomethyl	4 – ( propionyloxy ) phenyl
nitro	aminomethyl	2 - trifluoromethylphenyl
nitro	aminomethyl	3 - trifluoromethylphenyl
nitro	aminomethyl	4 - trifluoromethylphenyl

### Table 6(continuation 3)

R<sup>3</sup> Ri 2 - thienyl aminomethyl nitro 3 - thienyl aminomethyl nitro 2 – furyl nitro aminomethyl 3 – furyl aminomethyl nitro 10 aminomethyl 2 – pyridyl nitro 3 - pyridyl nitro aminomethyl 4 – pyridyl aminomethyl nitro

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R<sup>1</sup> N

Each substituent in the formula above is as follows:

R <sup>1</sup>	R³	Z
nitro	amino	phenyl
nitro	amino	2 – fluorophenyl
nitro	amino	3 – fluorophenyl
nitro	amino	4 – fluorophenyl
nitro	amino	2, 4 - difluorophenyl
nitro	amino	2, 5 - difluorophenyl
nitro	amino	2, 6 - difluorophenyl
nitro	amino	3, 4 - difluorophenyl
nitro	amino	3, 5 – difluorophenyl
nitro	amino	2 – chlorophenyl
nitro	amino	3 — chlorophenyl
nitro	amino	4 – chlorophenyl
nitro	amino	2, 4 – dichlorophenyl
nitro	amino	3, 4 - dichlorophenyl
nitro	amino	2 – bromophenyl
nitro	amino	3 – bromophenyl
nitro	amino	4 – bromophenyl
nitro	amino	2 – methylphenyl
nitro	amino	3 - methylphenyl
nitro	amino	4 – methylphenyl
nitro	amino	2 - methoxyphenyl
nitro	amino	3 – methoxyphenyl
nitro	amino	4 - methoxyphenyl
nitro	amino	2, 3 - dimethoxyphenyl
nitro	amino	2, 4 - dimethoxyphenyl
nitro	amino	3, 4 - dimethoxyphenyl
nitro	amino	3, 5 - dimethoxyphenyl
nitro	amino	3, 4 – ( methylenedioxy ) phenyl
nitro	amino	3, 4 – ( ethylenedioxy ) phenyl
nitro	amino	2 - hydroxyphenyl
nitro	amino	3 – hydroxyphenyl
nitro	amino	4 - hydroxyphenyl
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## Table 7(continuation 1)

		· · · · · · · · · · · · · · · · · · ·	
5	R <sup>1</sup>	R³	Z
,	nitro	amino	2 - aminophenyl
	nitro	amino	3 - aminophenyl
	nitro	amino	4 - aminophenyl
	nitro	amino	2 - ( methylamino ) phenyl
10	nitro	amino	3 - ( methylamino ) phenyl
	nitro	amino	4 - ( methylamino ) phenyl
	nitro	amino	2-( dimethylamino ) phenyl
	nitro	amino	3 - (dimethylamino) phenyl
	nitro	amino	4-(dimethylamino) phenyl
15	nitro	amino	2 – carboxyphenyl
	nitro	amino	3 – carboxyphenyl
	nitro	amino	4 - carboxyphenyl
	nitro	amino	2 - ( methylcarbamoyl ) phenyl
	nitro	amino	3 - ( methylcarbamoyl ) phenyl
20	nitro	amino	4 - ( methylcarbamoyl ) phenyl
	nitro	amino	2 - ( methoxycarbonyl ) phenyl
	nitro	amino	3 – ( methoxycarbonyl ) phenyl
	nitro	amino	4 - ( methoxycarbonyl ) phenyl
25	nitro	amino	2 – ( cthoxycarbonyl ) phenyl
	nitro	amino	3 – ( ethoxycarbonyl ) phenyl
	nitro	amino	4 – ( ethoxycarbonyl ) phenyl
	nitro	amino	2 - ( acetyloxy ) phenyl
	nitro	amino	3 - ( acetyloxy ) phenyl
30	nitro	amino	4 – ( acetyloxy ) phenyl
	nitro	amino	2 – (propionyloxy) phenyl
	nitro	amino	3 - (propionyloxy) phenyl
	nitro	amino	4 – (propionyloxy) phenyl 2 - trifluoromethylphenyl
35	nitro	amino	3 - trifluoromethylphenyl
35	nitro	amino amino	4 - trifluoromethylphenyl
	nitro nitro	amino	2 – thienyl
	nitro	amino	3 – thienyl
•	nitro	amino	2 – furyl
40	nitro	amino	3 – furyl
	nitro	amino	2 – pyridyl
	nitro	amino	3 – pyridyl
	nitro	amino	4 – pyridyl
	nitro	aminomethyl	phenyl
45	nitro	aminomethyl	2 – fluorophenyl
	nitro	aminomethyl	3 – fluorophenyl
	nitro	aminomethyl	4 - fluorophenyl
	nitro	aminomethyl	2, 4 - difluorophenyl
50	nitro	aminomethyl	2, 5 - difluorophenyl
JU	nitro	aminomethyl	2, 6 - difluorophenyl
	nitro	aminomethyl	3, 4 - difluorophenyl
	nitro	aminomethyl	3, 5 - difluorophenyl
	nitro	aminomethyl	2 - chlorophenyl
55	nitro	aminomethyl	3 - chlorophenyl

## Table 7(continuation 2)

			Table (continuation 2)
	R¹	R³	Z
	nitro	aminomethyl	4 – chlorophenyl
	nitro	aminomethyl	2, 4 - dichlorophenyl
	nitro	aminomethyl	3, 4 – dichlorophenyl
	nitro	aminomethyl	2 - bromophenyl
	nitro	aminomethyl	3 – bromophenyl
	nitro	aminomethyl	4 - bromophenyl
	nitro	aminomethyl	2 - methylphenyl
Г	nitro	aminomethyl	3 - methylphenyl
	nitro	aminomethyl	4 - methylphenyl
	nitro	aminomethyl	2 – methoxyphenyl
	nitro	aminomethyl	3 – methoxyphenyl
	nitro	aminomethyl	4 – methoxyphenyl
	nitro	aminomethyl	2, 3 - dimethoxyphenyl
	nitro	aminomethyl	2, 4 - dimethoxyphenyl
	nitro	aminomethyl	3, 4 - dimethoxyphenyl
	nitro	aminomethyl	3, 5 – dimethoxyphenyl
	nitro	aminomethyl	3, 4 - ( methylenedioxy ) phenyl
	nitro	aminomethyl	3, 4 – ( ethylenedioxy ) phenyl
L_	nitro	aminomethyl	2 – hydroxyphenyl
	nitro	aminomethyl	3 – hydroxyphenyl
<u> </u>	nitro	aminomethyl	4 – hydroxyphenyl
	nitro	aminomethyl	2 – aminophenyl
<u></u>	nitro	aminomethyl	3 – aminophenyl
<u></u>	nitro	aminomethyl	4 – aminophenyl
<u> </u>	nitro	aminomethyl	2 – ( methylamino ) phenyl
-	nitro	aminomethyl	3 – ( methylamino ) phenyl
<u> </u>	nitro	aminomethyl	4 - (methylamino) phenyl
1	nitro	aminomethyl	2 – (dimethylamino) phenyl
	nitro	aminomethyl aminomethyl	3 - (dimethylamino) phenyl 4 - (dimethylamino) phenyl
⊣	nitro nitro	aminomethyl	4 - (dimethylamino) phenyl 2 - carboxyphenyl
<b>├</b> -	nitro	aminomethyl	3 – carboxyphenyl
-	nitro	aminomethyl	4 — carboxyphenyl
1	nitro	aminomethyl	2 – ( methylcarbamoyl ) phenyl
-	nitro	aminomethyl	3 - ( methylcarbamoyl ) phenyl
	nitro	aminomethyl	4 - ( methylcarbamoyl ) phenyl
-	nitro	aminomethyl	2 – ( methoxycarbonyl ) phenyl
<b>├</b>	nitro	aminomethyl	3 - (methoxycarbonyl) phenyl
-	nitro	aminomethyl	4 – (methoxycarbonyl) phenyl
-	nitro	aminomethyl	2 - (ethoxycarbonyl) phenyl
<b> </b>	nitro	aminomethyl	3 – (ethoxycarbonyl) phenyl
}-	nitro	aminomethyl	4 – (ethoxycarbonyl) phenyl
-	nitro	aminomethyl	2 – (acetyloxy) phenyl
<u> </u>	nitro	aminomethyl	3 - (acetyloxy) phenyl
<u> </u> -	nitro	aminomethyl	4 - ( acetyloxy ) phenyl
	nitro	aminomethyl	2 - (propionyloxy) phenyl
-	nitro	aminomethyl	3 – (propionyloxy) phenyl
	nitro	aminomethyl	4 – (propionyloxy) phenyl
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Table 7(continuation 3)

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R <sup>1</sup>	R³	Z
nitro	aminomethyl	2 - trifluoromethylphenyl
nitro	aminomethyl	3 - trifluoromethylphenyl
nitro	aminomethyl	4 - trifluoromethylphenyl
nitro	aminomethyl	2 – thienyl
nitro	aminomethyl	3 – thienyl
nitro	aminomethyl	2 – furyl
nitro	aminomethyl	3 – furyl
nitro	aminomethyl	2 – pyridyl
nitro	aminomethyl	3 – pyridyl
nitro	aminomethyl	4 – pyridyl

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R<sup>1</sup> N CH<sub>2</sub>)<sub>m</sub>

Each substituent in the formula above is as follows:

m	R¹	R³	R <sup>6</sup>	Z
ì	nitro	Н	hydroxymethyl	phenyl
1	nitro	Н	hydroxymethyl	4 – fluorophenyl
1	nitro	H	hydroxymethyl	4 – chlorophenyl
1	nitro	H	hydroxymethyl	4 – methoxyphenyl
1	nitro	Н	hydroxymethyl	4 – hydroxyphenyl
1	nitro	Н	hydroxymethyl	4 – ( acetyloxy ) phenyl
1	nitro	Н	hydroxymethyl	4 – (propionyloxy) phenyl
1	nitro	Н	methoxycarbonyl	phenyl
1	nitro	Н	methoxycarbonyl	4 – fluorophenyl
1	nitro	Н	methoxycarbonyl	4 – chlorophenyl
1	nitro	H	methoxycarbonyl	4 – methoxyphenyl
1	nitro	H	methoxycarbonyl.	4 – hydroxyphenyl
1	nitro	Н	methoxycarbonyl	4 – ( acetyloxy ) phenyl
1	nitro	Н	methoxycarbonyl	4 – ( propionyloxy ) phenyl
1	nitro	Н	ethoxycarbonyl	phenyl
1	nitro	H	ethoxycarbonyl	4 – fluorophenyl
1	nitro	Н	ethoxycarbonyl	4 – chlorophenyl
1	nitro	Н	ethoxycarbonyl	4 – methoxyphenyl
. 1	nitro	Н	ethoxycarbonyl	4 – hydroxyphenyl
1	nitro	H	ethoxycarbonyl	4 – (acetyloxy) phenyl
1	nitro	Н	ethoxycarbonyl	4 – (propionyloxy) phenyl

HŅ	Z
$R^1$ $R^6$	
N	
$R^3$ - $N$ $(CH_2)_m$	

Each substituent in the formula above is as follows:

m	R¹	R <sup>3</sup>	R°	Z
1	nitro	H	methyl	phenyl
1	nitro	Н	hydroxyl	phenyl
1	nitro	Н	phenyl	phenyl
1	nitro	methyl	methyl	phenyl
1	nitro	methyl	hydroxyl	phenyl
1	nitro	methyl	phenyl	phenyl
1	nitro	ethyl	methyl	phenyl
1	nitro	ethyl	hydroxyl	phenyl
1	nitro	ethyl	phenyl	phenyl
2	nitro	Н	methyl	phenyl
2	nitro	Н	hydroxyl	phenyl
2	nitro	H	phenyl	phenyl

 $R^3$  N  $(CH_2)_m$ 

Each substituent in the formula above is as follows:

m	R1	R³	R3	Z
1	nitro	H	methyl	phenyl
1	nitro	Н	methyl	2 – fluorophenyl
1	nitro	Н	methyl	3 – fluorophenyl
ī	nitro	Н	methyl	4 – fluorophenyl
1	nitro	H	methyl	4 – chlorophenyl
1	nitro	Н	methyl	4 – methylphenyl
1	nitro	Н	methyl	2 – methoxyphenyl
1	nitro	Н	methyl	3 – methoxyphenyl
1	nitro	Н	methyl	4 - methoxyphenyl
ı	nitro	Н	methyl	3, 4 - dimethoxyphenyl
1	nitro	Н	methyl	3, 4 – ( methylenedioxy ) phenyl
1	nitro	Н	methyl	4 – hydroxyphenyl
1	nitro	Н	methyl	l naphthyl
1	nitro	H	ethyl	· phenyl
1	nitro	Н	ethyl	2 – fluorophenyl
1	nitro	Н	ethyl	3 – fluorophenyl
1	nitro	H	ethyl	4 – fluorophenyl
1	nitro	H	ethyl	4 – chlorophenyl
1	nitro	H	ethyl	4 – methylphenyl
1	nitro	Н	ethyl	2 – methoxyphenyl
1	nitro	H	ethyl	3 – methoxyphenyl
1	nitro	Н	ethyl	4 – methoxyphenyl
1	nitro	Н	ethyl	3, 4 - dimethoxyphenyl
ì	nitro	H	ethyl	3, 4 - ( methylenedioxy ) phenyl
1	nitro	Н	ethyl	4 – hydroxyphenyl
1	nitro	H	ethyl	l – naphthyl
1	nitro	Н	butyl	phenyl
1	nitro	Н	butyl	2 – fluorophenyl
1	nitro	Н	butyl	3 – fluorophenyl
1	nitro	H	butyl	4 – fluorophenyl
1	nitro	Н	butyl	4 - chlorophenyl
i	nitro	Н	butyl	4 – methylphenyl
i	nitro	H	butyl	2 – methoxyphenyl
Hi-	nitro	H	butyl	3 – methoxyphenyl
i	nitro	H	butyl	4 – methoxyphenyl
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Table 10(continuation 1)

ſ	m	R'	R3	R <sup>s</sup>	Z
	1	nitro	Н	butyl	3, 4 - dimethoxyphenyl
	1	nitro	Н	butyl	3, 4 – ( methylenedioxy ) phenyl
	1	nitro	Н	butyl	4 – hydroxyphenyl
	1	nitro	Н	butyl	l- naphthyl
	1	nitro	Н	hydroxyethyl	phenyl
	1	nitro	Н	hydroxyethyl	2 – fluorophenyl
	1	nitro	Н	hydroxyethyl	3 – fluorophenyl
j	1	nitro	Н	hydroxyetbyl	4 – fluorophenyl
	1	nitro	H	hydroxyethyl	4 – chlorophenyl
	1	nitro	Н	hydroxyethyl	4 – methylphenyl
1	1	nitro	Н	hydroxyethyl	2 - methoxyphenyl
	1	nitro	Н	hydroxyethyl	3 - methoxyphenyl
	1	nitro	Н	hydroxyethyl	4 - methoxyphenyl
	1	nitro	Н	hydroxyethyl	3, 4 - dimethoxyphenyl
	1	nitro	Н	hydroxyethyl	3, 4 - ( methylenedioxy ) phenyl
	1	nitro	Н	hydroxyethyl	4 – hydroxyphenyl
	1	nitro	Н	hydroxyethyl	l- naphthyl
	ì	nitro	Н	benzyl	phenyl
	1	nitro	Н	benzyl	4 – fluorophenyl
	1	nitro	H	benzyi	4 – chlorophenyl
	11	nitro	Н	benzyl	2 - methoxyphenyl
	1	nitro	Н	benzyl	3 - methoxyphenyl
	1	nitro	Н	benzyl	4 - methoxyphenyl
	1	nitro	Н	benzyl	3, 4 - dimethoxyphenyl
	1	nitro	methyl	methyl	phenyl
	1	nitro	methyl	methyl	2 – fluorophenyl
	1	nitro	methyl	methyl	3 – fluorophenyl
	1	nitro	methyl	methyl	4 – fluorophenyl
	1	nitro	methyl	methyl	4 – chlorophenyl 4 – methylphenyl
	1	nitro	methyl	methyl methyl	2 - methoxyphenyl
	. 1	nitro	methyl		3 - methoxyphenyl
	1	nitro nitro	methyl methyl	methyl methyl	4 - methoxyphenyl
	1	nitro	methyl	methyl	3, 4 – dimethoxyphenyl
	1	nitro	methyl	methyl	3, 4 – (methylenedioxy) phenyl
	1	nitro	methyl	methyl	4 – hydroxyphenyl
	1	nitro	methyl	methyl	1 – naphthyl
	1	nitro	methyl	ethyl	phenyl
	1	nitro	methyl	ethyl	2 – fluorophenyl
	1	nitro	methyl	ethyl	3 – fluorophenyl
	1	nitro	methyl	ethyl	4 – fluorophenyl
	1	nitro	methyl	ethyl	4 – Indolophenyl
	1	nitro	methyl	ethyl	4 – methylphenyl
	1	nitro	methyl	ethyl	2 – methoxyphenyl
	1	nitro	methyl	ethyl	3 – methoxyphenyl
	1	nitro	methyl	ethyl	4 – methoxyphenyl
	1	nitro	methyl	ethyl	3, 4 – dimethoxyphenyl
	1	nitro	methyl	ethyl	3, 4 – difficulty yphenyl
		nitto	memyt	cuiyi	3,4~ ( nieulyteneuloxy ) paenyl

# Table 10(continuation 2)

m	R <sup>1</sup>	Ľ,	R <sup>5</sup>	Z
1	nitro	methyl	ethyl	4 – hydroxyphenyl
1	nitro	methyl	ethyl	l- naphthyl
1	nitro	methyl	butyl	phenyl
1	nitro	methyl	butyl	2 – fluorophenyl
1	nitro	methyl	butyl	3 - fluorophenyl
1	nitro	methyl	butyl	4 - fluorophenyl
1	nitro	methyl	butyl	4 – chlorophenyl
1	nitro	methyl	butyl	4 – methylphenyl
1	nitro	methyl	butyl	2 – methoxyphenyl
1	nitro	methyl	butyl	3 - methoxyphenyl
1	nitro	methyl	butyl	4 - methoxyphenyl
1	nitro	methyl	butyl	3, 4 - dimethoxyphenyl
1	nitro	methyl	butyl	3, 4 - ( methylenedioxy ) phenyl
1	nitro	methyl	butyl	4 - hydroxyphenyl
1	nitro	methyl	butyl	1- naphthyl
1	nitro	methyl	hydroxyethyl	phenyl
1	nitro	methyl	hydroxyethyl	2 – fluorophenyl
1	nitro	methyl	hydroxyethyl	3 – fluorophenyl
1	nitro	methyl	hydroxyethyl	4 – fluorophenyl
1	nitro	methyl	hydroxyethyl	4 – chlorophenyl
1	nitro	methyl	hydroxyethyl	4 - methylphenyl
1	nitro	methyl	hydroxyethyl	2 - methoxyphenyl
1	nitro	methyl	hydroxyethyl	3 - methoxyphenyl
1	nitro	methyl	hydroxyethyl	4 – methoxyphenyl
1	nitro	methyl	hydroxyethyl	3, 4 - dimethoxyphenyl
1	nitro	methyl	hydroxyethyl	3, 4 – ( methylenedioxy ) phenyl
1	nitro	methyl	hydroxyethyl	4 – hydroxyphenyl
1	nitro	methyl	hydroxyethyl	l-naphtbyl.
1	nitro	methyl	benzyl	phenyl
1	nitro	methyl	benzyl	4 – fluorophenyl
1	nitro	methyl	benzyl	4 - chlorophenyl
1	nitro	methyl	benzyl	2 – methoxyphenyl
1	nitro	methyl	benzyl	3 – methoxyphenyl
1	nitro	methyl	benzyl	4 – methoxyphenyl
1	nitro	methyl	benzyl	3, 4 - dimethoxyphenyl
1	nitro	methyl	benzyl	3, 4 – ( methylenedioxy ) phenyl
2	nitro	Н	methyl	phenyl
2	nitro	H	methyl	2 - fluorophenyl
2	nitro	H	methyl	3 – fluorophenyl
2	nitro	H	methyl	4 – fluorophenyl
2	nitro	H	methyl	4 – chlorophenyl
2	nitro	Н	methyl	4 – methylphenyl
2	nitro	Н	methyl	2 – methoxyphenyl
2	nitro	H	methyl	3 – methoxyphenyl
2	nitro	Н	methyl	4 - methoxyphenyl
2	nitro	Н	methyl	3, 4 - dimethoxyphenyl
2	nitro	Н	methyl	3, 4 - ( methylenedioxy ) phenyl
2				

# Table 10(continuation 2)

			1:	able 10(continual	ion 2)
1	m	R <sup>1</sup>	R <sup>3</sup>	R <sup>5</sup>	Z
5	2	nitro	Н	methyl	l– naphthyl
	2	nitro	Н	ethyl	phenyl
	2	nitro	Н	ethyl	2 – fluorophenyl
	2	nitro	Н	ethyl	3 – fluorophenyl
	2	nitro	Н	cthyl	4 – fluorophenyl
10	2	nitro	Н	ethyl	4 – chlorophenyl
	2	nitro	Н	ethyl	4 - methylphenyl
	2	nitro	Н	ethyl	2 - methoxyphenyl
	2	nitro	Н	ethyl	3 - methoxyphenyl
45	2	nitro	Н	ethyl	4 - methoxyphenyl
15	2	nitro	Н	ethyl	3, 4 - dimethoxyphenyl
	2	nitro	Н	ethyl	3, 4 - ( methylenedioxy ) phenyl
	2	nitro	Н	ethyl	4 – hydroxyphenyl
	2	nitro	Н	ethyl	l- naphthyl
20	2	nitro	Н	butyl	phenyl
	2	nitro	Н	butyl	2 – fluorophenyl
	2	nitro	Н	butyl	3 – fluorophenyl
	2	nitro ·	Н	butyl	4 – fluorophenyl
	2	nitro	Н	butyl	4 – chlorophenyl
25	2	nitro	Н	butyl	4 – methylphenyl
	2	nitro	H	butyl	2 - methoxyphenyl
	2	nitro	H	butyl	3 - methoxyphenyl
	2	nitro	Н	butyl	4 – methoxyphenyl
30	2	nitro	Н	butyl	3, 4 – dimethoxyphenyl
	2	nitro	Н	butyl	3, 4 – ( methylenedioxy ) phenyl
	2	nitro	Н	butyl	4 – hydroxyphenyl
	2	nitro	Н	butyl	l- naphthyl
	2	nitro	Н	hydroxyethyl	phenyl 2 – fluorophenyl
35	2	nitro_	Н	hydroxyethyl	3 – fluorophenyl
	2	nitro	H	hydroxyethyl	4 – fluorophenyl
	2	nitro	H	hydroxyethyl	4 - rhorophenyl
	2	nitro	H	hydroxyethyl	4 - methylphenyl
40	2	nitro	H	hydroxyethyl	2 – methoxyphenyl
40	2	nitro	H	hydroxyethyl hydroxyethyl	3 – methoxyphenyl
	2	nitro	H	hydroxyethyl	4 – methoxyphenyl
	2	nitro			3, 4 – dimethoxyphenyl
	2	nitro nitro	H	hydroxyethyl hydroxyethyl	3, 4 – ( methylenedioxy ) phenyl
45			H	hydroxyethyl	4 – hydroxyphenyl
	2	nitro	H	hydroxyethyl	l– naphthyl
	2	nitro	H	benzyl	phenyl
	2	nitro	H	benzyl	4 – fluorophenyl
	2	nitro	H	benzyl	4 - chlorophenyl
50	2	nitro	H	benzyl	2 – methoxyphenyl
	2	nitro	H	benzyl	3 – methoxyphenyl
	2	nitro			4 - methoxyphenyl
	2	nitro	H	benzyl	3, 4 - dimethoxyphenyl
55	2	nitro	H	benzyl	3, 4 – (methylenedioxy) phenyl
- <b>-</b>	2	nitro	H	benzyl	3,4 - ( memyrenedioxy ) puchys

Each substituent in the formula above is as follows:

m	R <sup>1</sup>	R <sup>3</sup>	R <sup>5</sup>	Z
1	nitro	H	methyl	phenyl
1	nitro	Н	methyl	3, 4 - dimethoxyphenyl
ì	nitro	Н	ethyl	phenyl
1	nitro	Н	ethyl	3, 4 - dimethoxyphenyl
1	nitro	methyl	methyl	phenyl
1	nitro	methyl	methyl	3, 4 - dimethoxyphenyl
1	nitro	methyl	ethyl	phenyl
1	nitro	methyl	ethyl	3, 4 - dimethoxyphenyl
1	nitro	ethyl	methyl	phenyl
1	nitro	ethyl	methyl	3, 4 - dimethoxyphenyl
1	nitro	ethyl	ethyl	phenyl
1	nitro	ethyl	ethyl	3, 4 - dimethoxyphenyl
2	nitro	H	methyl	phenyl
2	nitro	H	methyl	3, 4 - dimethoxyphenyl
2	nitro	H	ethyl	phenyl
2	nitro	Н	ethyl	3, 4 - dimethoxyphenyl
2	nitro	methyl	methyl	phenyl
2	nitro	methyl	methyl	3, 4 - dimethoxyphenyl
2	nitro	methyl	ethyl	phenyl
2	nitro	methyl	ethyl	3, 4 - dimethoxyphenyl
2	nitro	ethyl	methyl	phenyl
2	nitro	ethyl	methyl	3, 4 - dimethoxyphenyl
2	nitro	ethyl	ethyl	phenyl
2	nitro	ethyl	etbyl	3, 4 - dimethoxyphenyl

÷10

Table 12

Each substituent in the formula above is as follows:

m	R¹	· Z
1	nitro	phenyl
1	nitro	2 – fluorophenyi
1	nitro	3 – fluorophenyl
1	nitro	4 – fluorophenyl
1	nitro	2, 4 – difluorophenyl
1	nitro	3, 4 – difluorophenyl
1	nitro	2 – chlorophenyl
1	nitro	3 – chlorophenyl
1	nitro	4 – chlorophenyl
1	nitro	4 – bromophenyl
1	nitro	2 - methylphenyl
1	nitro	3 – methylphenyl
1	nitro	4 – methylphenyl
1	nitro	2, 3 – dimethylphenyl
1	nitro	2, 4 – dimethylphenyl
1	nitro	3, 4 - dimethylphenyl
1.	nitro	2 – methoxyphenyl
1	nitro	3 - methoxyphenyl
1	nitro	4 - methoxyphenyl
1	nitro	2, 3 - dimethoxyphenyl
1	nitro	2, 4 - dimethoxyphenyl
1	nitro	3, 4 - dimethoxyphenyl
1	nitro	3, 4, 5 - trimethoxyphenyl
1	nitro	3, 4 - ( methylenedioxy ) phenyl
1	nitro	2 - trifluoromethylphenyl
<u> </u>	nitro	3 - trifluoromethylphenyl
i	nitro	4 - trifluoromethylphenyl
<del>- i</del>	nitro	2 - thienyl
1	nitro	3 – thienyl
i	nitro	2 – furyl
<del>i</del>	nitro	3 – furyl
1	nitro	2 – pyridyl
1	nitro	3 – pyridyl
	nitro	4 – pyridyl
1	1 11110	1 4 - pyriayi

# Table 12(continuation 1)

m	R¹	Z
2	nitro	phenyl
2	nitro	2 – fluorophenyl
2	nitro	3 – fluorophenyl
2	nitro	4 – fluorophenyl
2	nitro	2, 4 - difluorophenyl
2	nitro	3, 4 – difluorophenyl
2	nitro	2 – chlorophenyl
2	nitro	3 - chlorophenyl
2	nitro	4 – chlorophenyl
2	nitro	4 – bromophenyl
2	nitro	2 – methylphenyl
2	nitro	3 - methylphenyl
2	nitro	4 - methylphenyl
2	nitro	2, 3 - dimethylphenyl
2	nitro	2, 4 - dimethylphenyl
2	nitro	3, 4 - dimethylphenyl
2	nitro	2 – methoxyphenyl
2	nitro	3 – methoxyphenyl
2	nitro	4 - methoxyphenyl
2	nitro	2, 3 - dimethoxyphenyl
2	nitro	2, 4 - dimethoxyphenyl
2 2 2	nitro	3, 4 - dimethoxyphenyl
2	nitro	3, 4, 5 - trimethoxyphenyl
2	nitro	3, 4 - ( methylenedioxy ) phenyl
2	nitro	2 - trifluoromethylphenyl
2	nitro	3 - trifluoromethylphenyl
2	nitro	4 - trifluoromethylphenyl
2	nitro	2 – thienyl
2	nitro	3 – thienyl
2	nitro	2 – furyl
2	nitro	3 furyl
2	nitro	2 – pyridyl
2	nitro	3 – pyridyl
2	nitro	4 – pyridyl

Table 13

5

		N Z	Z
$R^1$	HN	~	
	N		
$HN \sim (CH_2)_m$			

### Each substituent in the formula above is as follows:

m	R1	Z
1	nitro	phenyl
1	nitro	2 – fluorophenyl
1	nitro	3 – fluorophenyl
1	nitro	4 – fluorophenyl
1	nitro	2, 4 – difluorophenyl
1	nitro	2, 5 – difluorophenyl
1	nitro	2, 6 - difluorophenyl
1	nitro	3, 4 – difluorophenyl
1	nitro	3, 5 – difluorophenyl
1	nitro	2 – chlorophenyl
1	nitro	3 – chlorophenyl
1	nitro	4 – chlorophenyl
ı	nitro	2, 3 – dichlorophenyl
1	nitro	3, 4 – dichlorophenyl
1	nitro	2 – bromophenyl
1	nitro	3 - bromophenyl
1	nitro	4 - bromophenyl
1	nitro	. 2 - methylphenyl
1	nitro	3 - methylphenyl
1	nitro	4 – methylphenyl
1	nitro	4 - ethylphenyl
1	nitro	4 – propylphenyl
1	nitro	4 – isopropylphenyl
1	nitro	4 - butylphenyl
1	nitro	2, 3 - dimethylphenyl
1	nitro	2, 4 - dimethylphenyl
1	nitro	3, 4 - dimethylphenyl
<u>i</u>	nitro	2 – methoxyphenyl
<u>i</u>	nitro	3 - methoxyphenyl
<del></del>	nitro	4 - methoxyphenyl
	IIII	4 - incurox ypiichyt

4 - ethoxyphenyl

4 - propoxyphenyl

nitro nitro

# Table 13(continuation 1)

m	R <sup>1</sup>	Z
1	nitro	4 - isopropoxyphenyl
1	nitro	2, 3 - dimethoxyphenyl
	nitro	2, 4 - dimethoxyphenyl
1	nitro	3, 4 - dimethoxyphenyl
1	nitro	3, 4, 5 - trimethoxyphenyl
1	nitro	2 – hydroxyphenyl
i	nitro	3 – hydroxyphenyl
1	nitro	4 – hydroxyphenyl
1	nitro	2 – aminophenyl
<del>                                      </del>	nitro	3 – aminophenyl
1	nitro	4 – aminophenyl
1	nitro	2 - ( methylamino ) phenyl
<u> </u>	nitro	3 – (methylamino) phenyl
1	nitro	4 – (methylamino) phenyl
1	nitro	3 – (dimethylamino) phenyl
1	nitro	2 - carboxyphenyl
1	nitro	3 – carboxyphenyl
1	nitro	4 – carboxyphenyl
i	nitro	2 - ( methylcarbamoyl ) phenyl
i	nitro	3 - ( methylcarbamoyl ) phenyl
1	nitro	4 – ( methylcarbamoyl ) phenyl
1	nitro	2 - ( methoxycarbonyl ) phenyl
1	nitro	3 - ( methoxycarbonyl ) phenyl
1	nitro	4 - ( methoxycarbonyl ) phenyl
1	nitro	2 - (ethoxycarbonyl) phenyl
1	nitro	3 – (ethoxycarbonyl) phenyl
1	nitro	4 – (ethoxycarbonyl) phenyl
1	nitro	2 - ( acetyloxy ) phenyl
1_	nitro	3 - (acetyloxy) phenyl
	nitro	4 - ( acetyloxy ) phenyl
1	nitro	2 – ( propionyloxy ) phenyl
1	nitro	3 – ( propionyloxy ) phenyl
1	nitro	4 – ( propionyloxy ) phenyl
1	nitro	2 - trifluoromethylphenyl
1	nitro	3 - trifluoromethylphenyl
1	nitro	4 - trifluoromethylphenyl
1	nitro	2 – thienyl
1	nitro	3 – thienyl
1	nitro	2 – furyl
1	nitro	3 – furyl
1	nitro	2 – pyridyl
1	nitro	3 – pyridyl
1	nitro	4 – pyridyl
2	nitro	phenyl
2	nitro	2 – fluorophenyl
2	nitro	3 – fluorophenyl
2	nitro	4 – fluorophenyl
2	nitro	2, 4 - difluorophenyl
		<del></del>

Table 13(continuation 2)

			Table 13(continuation 2)
5	m	R¹	Z
	2	nitro	2, 5 - difluorophenyl
	2	nitro	2, 6 - difluorophenyl
	2	nitro	3, 4 - difluorophenyl
	2	nitro	3, 5 – difluorophenyl
10	2	nitro	2 - chlorophenyl
	2	nitro	3 – chlorophenyl
	2	nitro	4 – chlorophenyl
	2	nitro	2, 3 – dichlorophenyl
	2	nitro	3, 4 – dichlorophenyl
15	2	nitro	2 - bromophenyl
	2	nitro	3 – bromophenyl
	2	nitro	4 - bromophenyl
	2	nitro	2 – methylphenyl
20	2	nitro	3 – methylphenyl
20	2	nitro	4 – methylphenyl
		nitro	4 – cthylphenyl
	2	nitro	4 – propylphenyl
	2	nitro	4 – isopropylphenyl
25	$\frac{2}{2}$	nitro	4 – butylphenyl
	2	nitro	2, 3 – dimethylphenyl
	2	nitro	2, 4 - dimethylphenyl
	2	nitro	3, 4 – dimethylphenyl
	2	nitro	2 - methoxyphenyl
30	2	nitro	3 – methoxyphenyl
		nitro	4 – methoxyphenyl
	2	nitro	4 - ethoxyphenyl
	2	nitro	4 - propoxyphenyl
	2	nitro	4 - isopropoxyphenyl
35	2	nitro	2, 3 - dimethoxyphenyl
	2	nitro	2, 4 - dimethoxyphenyl
	2	nitro	3, 4 - dimethoxyphenyl
	2	nitro	3, 4, 5 - trimethoxyphenyl
40	2	nitro	2 - hydroxyphenyl
40	2	nitro	3 - hydroxyphenyl
	2	nitro	4 - hydroxyphenyl
	2	nitro	2 - aminophenyl
	2	nitro	3 – aminophenyl
45	2	nitro	4 - aminophenyl
	2	nitro	2 - ( methylamino ) phenyl
	2	nitro	3 – ( methylamino ) phenyl
	2	nitro	4 - ( methylamino ) phenyl
	2	nitro	3 – (dimethylamino) phenyl
50	2	nitro	2 – carboxyphenyl
	2	nitro	3 – carboxyphenyl
	2	nitro	4 – carboxyphenyl
	2	nitro	2 - ( methylcarbamoyl ) phenyl
55	2	nitro	3 - ( methylcarbamoyl ) phenyl
		nitro	4 – ( methylcarbamoyl ) phenyl

# Table 13(continuation 3)

m	R <sup>1</sup>	Z
2	nitro	2 - ( methoxycarbonyl ) phenyl
2	nitro	3 - ( methoxycarbonyl ) phenyl
2	nitro	4 – ( methoxycarbonyl ) phenyl
2	nitro	2 – ( ethoxycarbonyl ) phenyl
2	nitro	3 – (ethoxycarbonyl) phenyl
2	nitro	4 – ( ethoxycarbonyi ) phenyl
2	nitro	2 – ( acetyloxy ) phenyl
2	nitro	3 – ( acetyloxy ) phenyl
2	nitro	4 – ( acetyloxy ) phenyl
2	nitro	2 – ( propionyloxy ) phenyl
2	nitro	3 – ( propionyloxy ) phenyl
2	nitro	4 - ( propionyloxy ) phenyl
2	nitro	2 - trifluoromethylphenyl
2	nitro	3 - trifluoromethylphenyl
2	nitro	4 - trifluoromethylphenyl
2	nitro	2 – thienyl
2	nitro	3 – thienyl
2	nitro	2 – furyl
2	nitro	3 – furyl
2	nitro	2 – pyridyl
2	nitro	3 – pyridyl
2	nitro	4 – pyridyl

			}z
		$\bigwedge_{N}$	N Z
n1	HIV		
$R^1$	N		
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	N		
$HN \subset (CH_2)_m$			

Each substituent in the formula above is as follows:

m	R'	Z
1	nitro	phenyl
1	nitro	2 – fluorophenyl
1	nitro	3 – fluorophenyl
1	nitro	4 – fluoropbenyl
1	nitro	2, 4 – difluorophenyl
1	nitro	2, 5 - difluorophenyl
1	nitro	2 – chlorophenyl
1	nitro	3 – chlorophenyl
1	nitro	4 – chlorophenyl
1	nitro	2 - bromophenyl
1	nitro	3 – bromophenyl
1	nitro	4 – bromophenyl
1	nitro	2 – methylphenyl
1	nitro	3 – methylphenyl
1	nitro	4 - methylphenyl
1	nitro	4 – ethylphenyl
1	nitro	4 – butylphenyl
1	nitro	2, 3 - dimethylphenyl
1	nitro	2, 4 - dimethylphenyl
1	nitro	3, 4 - dimethylphenyl
1	nitro	2 – methoxyphenyl
1	nitro	3 – methoxyphenyl
1	nitro	4 – methoxyphenyl
1	nitro	4 – butoxyphenyl
1	nitro	2, 4 - dimethoxyphenyl
1	nitro	2, 5 - dimethoxyphenyl
1	nitro	3, 4, 5 - trimethoxyphenyl
1	nitro	3, 4 - ( methylenedioxy ) phenyl
1	nitro	2 - trifluoromethylphenyl
1	nitro	3 - trifluoromethylphenyl
1	nitro	4 - trifluoromethylphenyl
1	nitro	2 - carboxyphenyl

· 55 -

### Table 14(continuation 1)

m	R <sup>1</sup>	2
m	nitro	3 - carboxyphenyl
1	nitro	4 - carboxyphenyl
1	nitro	2 - ( methylcarbamoyl ) phenyl
1	nitro	3 - ( methylcarbamoyl ) phenyl
1	nitro	4 - ( methylcarbamoyl ) phenyl
1	nitro	2 - (ethoxycarbonyl) phenyl
1	nitro	3 - (ethoxycarbonyl) phenyl
1	nitro	4 - (ethoxycarbonyl) phenyl
1	nitro	4 - nitrophenyl
1	nitro	1 – naphthyl
1	nitro	3 – pyridyl
2	nitro	phenyl
2	nitro	2 – fluorophenyl
2	nitro	3 – fluorophenyl
2	nitro	4 – fluorophenyl 2, 4 – difluorophenyl
2	nitro	
2	nitro	2, 5 - difluorophenyl 2 - chlorophenyl
1-2-	nitro nitro	3 – chlorophenyl
1 2	nitro	· 4 – chlorophenyl
1 2	nitro	2 – bromophenyl
2 2 2 2 2	nitro	3 – bromophenyl
2	nitro	4 – bromophenyl
2	nitro	2 – methylphenyl
2	nitro	3 - methylphenyl
2	nitro	4 - methylphenyl
2	nitro	4 – ethylphenyl
2	nitro	4 – butylphenyl
	nitro	2, 3 - dimethylphenyl
2	nitro	2, 4 - dimethylphenyl
2	nitro	3, 4 - dimethylphenyl
2	nitro	2 – methoxyphenyl
2 2 2 2 2	nitro	3 – methoxyphenyl
2	nitro	4 – methoxyphenyl
2	nitro	4 - butoxyphenyl
2	nitro	2, 4 - dimethoxyphenyl
2	nitro	2, 5 - dimethoxyphenyl
2	nitro	3, 4, 5 - trimethoxyphenyl
2	nitro	3, 4 - ( methylenedioxy ) phenyl
2	nitro	2 - trifluoromethylphenyl
2	nitro	3 - trifluoromethylphenyl
2	nitro	4 - trifluoromethylphenyl
2	nitro	2 - carboxyphenyl
2	nitro	3 - carboxyphenyl
2	nitro	4 - carboxyphenyl
2	nitro	2 - ( methylcarbamoyl ) phenyl
2	nitro	3 - ( methylcarbamoyl ) phenyl
2	nitro	4 - ( methylcarbamoyl ) phenyl
	L	

Table 14(continuation 2)

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m	R <sup>1</sup>	Z
2	nitro	2 - (ethoxycarbonyl) phenyl
2	nitro	3 - (ethoxycarbonyl) phenyl
2	nitro	4 - ( ethoxycarbonyl ) phenyl
2	nitro	4 - nitrophenyl
2	nitro	l – naphthyl
2	nitro	3 – pyridyl

Table 15

Each substituent in the formula above is as follows:

m	R¹	Z
- 1	nitro	phenyl
1	nitro	2 – fluorophenyl
1	nitro	3 – fluorophenyl
1	nitro	4 – fluorophenyl
1	nitro	2, 4 - difluorophenyl
1	nitro	2, 5 - difluorophenyl
1	nitro	2 - chlorophenyl
1_	nitro	3 – chlorophenyl
1 .	nitro	4 – chlorophenyl
1 -	nitro	2 - bromophenyl
1	nitro	3 – bromophenyl
1	nitro	4 - bromophenyl
1	nitro	2 – methylphenyl
1	nitro	3 – methylphenyl
1	nitro	4 – methylphenyl
1	nitro	4 - ethylphenyl
1	nitro	4 – butylphenyl
1	nitro	2, 4 - dimethylphenyl
1	nitro	3, 5 - dimethylphenyl
1	nitro	2 – methoxyphenyl
1	nitro	3 - methoxyphenyl
1	nitro	4 - methoxyphenyl
1	nitro	4 – butoxyphenyl
1	nitro	2, 4 - dimethoxyphenyl
1	nitro	2, 5 - dimethoxyphenyl
3	nitro	3, 4 - dimethoxyphenyl
1	nitro	3, 4, 5 - trimethoxyphenyl
1	nitro	3, 4 - ( methylenedioxy ) phenyl
1	nitro	4 - carboxyphenyl
1	nitro	4 - ( methylcarbamoyl ) phenyl
1	nitro	2 - nitrophenyl
1	nitro	3 - nitrophenyl
1	nitro	4 - nitrophenyl
1	nitro	4 - cyanophenyl

# Table 15(continuation 1)

m	Ri	Z
2	nitro	phenyl
2	nitro	2 – fluorophenyl
2	nitro	3 - fluorophenyl
2	nitro	4 - fluorophenyl
2	nitro	2, 4 - difluorophenyl
2	nitro	2, 5 - difluorophenyl
2	nitro	2 - chlorophenyl
2	nitro	3 - chlorophenyl
2	nitro	4 - chlorophenyl
2	nitro	2 - bromophenyl
2	nitro	3 – bromophenyl
2	nitro	4 - bromophenyl
2	nitro	2 - methylphenyl
2	nitro	3 – methylphenyl
2	nitro	4 – methylphenyl
2	nitro	4 – ethylphenyl
2	nitro	4 – butylphenyl
2 2 2 2	nitro	2, 4 - dimethylphenyl
2	nitro	3, 5 - dimethylphenyl
2	nitro	2 - methoxyphenyl
2	nitro	3 – methoxyphenyl
2	nitro	4 - methoxyphenyl
2	nitro	4 - butoxyphenyl
2	nitro	2, 4 – dimethoxyphenyl
2	nitro	2, 5 – dimethoxyphenyl
2	nitro	3, 4 – dimethoxyphenyl
2	nitro	3, 4, 5 - trimethoxyphenyl
2	nitro	3, 4 - (methylenedioxy) phenyl
	nitro	4 - carboxyphenyl
2	nitro	4 - ( methylcarbamoyl ) phenyl
	nitro	2 - nitrophenyl
2	nitro	3 - nitrophenyl
2	nitro	4 - nitrophenyl
	nitro	4 - cyanophenyl

Table 16

	80
	N <sup>S</sup> Z
НŅ	$\downarrow \downarrow$
$R^1$	·
	N
N N	
$HN \sim (CH_2)_m$	

### Each substituent in the formula above is as follows:

m	R <sup>1</sup>	Z
1	nitro	phenyl
1	nitro	phenyl
	nitro	4 – fluorophenyl
1	nitro	4 — fluorophenyl
	nitro	4 – chlorophenyl
2	nitro	4 – chlorophenyl
1	nitro	4 – methylphenyl
2	nitro	4 - methylphenyl
1	nitro	2, 4, 6 - trimethylphenyl
2	nitro	2, 4, 6 - trimethylphenyl
2	nitro	2, 4, 6 - triisopropylphenyl
2	nitro	2, 4, 6 - triisopropylphenyl
	nitro	4 – methoxyphenyl
2	nitro	4 – methoxyphenyl
1	nitro	2 - nitrophenyl
1	nitro	2 - nitrophenyl
	nitro	3 - nitrophenyl
2	nitro	3 - nitrophenyl
1	nitro	4 - nitrophenyl
1	nitro	4 - nitrophenyl
1	nitro	2 - aminophenyl
2	nitro	2 - aminophenyl
1	nitro	3 - aminophenyl
2	nitro	3 - aminophenyl
2 1 2 1	nitro	4 - aminophenyl
2	nitro	4 - aminophenyl
	nitro	1 – naphthyl
2	nitro	1 - naphthyl
	nitro	2 – naphthyl
2	nitro	2 – naphthyl
1	nitro	I – thienyl
2	nitro	l – thienyl
-		

Table 17

Each substituent in the formula above is as follows:

m	W	R¹	Z
1	N	nitro	phenyl
1	N	nitro	2 – fluorophenyl
1	N	nitro	4 – fluorophenyl
1	N	nitro	2 - chlorophenyl
1	N	nitro	3 – chlorophenyl
1	N	nitro	4 - chlorophenyl
1	N	nitro	2 - methylphenyl
1	N	nitro	2, 3 – dimethylphenyl
1	N	nitro	2 – methoxyphenyl
1	N	nitro	4 - methoxyphenyl
1	N	nitro	2 - ethoxyphenyl
1	N	nitro	3 - trifluoromethylphenyl
1	N	nitro	2 – pyridyl
1	N	nitro	2 – pyrimidinyl
1	СН	nitro	. phenyl
2	N	nitro	phenyl
2	N	nitro	2 – fluorophenyl
2	N	nitro	4 – fluorophenyl
2	N	nitro	2 – chlorophenyl
2	N	nitro	3 – chlorophenyl
2	N	nitro	4 – chlorophenyl
. 2	N	nitro	2 – methylphenyl
2	И	nitro	2, 3 - dimethylphenyl
2	N	nitro	2 – methoxyphenyl
	N	nitro	4 - methoxyphenyl
2	N	nitro	2 - ethoxyphenyl
2	N	nitro	3 - trifluoromethylphenyl
2	N	nitro	2 – pyridyl
2	N	nitro	2 – pyrimidinyl
2	CH	nitro	phenyl

Table 18

R' N

Each substituent in the formula above is as follows:

m	W	R¹	Z
1	N	nitro	phenyl
1	N	nitro	2 – fluorophenyl
1	N	nitro	3 – fluorophenyl
1	N	nitro	4 – fluorophenyl
1	N	nitro	2, 4 - difluorophenyl
1	N	nitro	3, 4 – difluorophenyl
1	N	nitro	2 – chlorophenyl
1	N	nitro	3 – chlorophenyl
1	N	nitro	4 – chlorophenyl
1	N	nitro	4 - bromophenyl
1	N	nitro	2 – methylphenyl
1_	N	nitro	3 – methylphenyl
I	N	nitro	4 – methylphenyl
1	N	nitro	2, 3 - dimethylphenyl
1	N	nitro	2, 4 – dimethylphenyl
1	N	nitro	3, 4 - dimethylphenyl
1	N	nitro	2 – methoxyphenyl
1	N	nitro	3 – methoxyphenyl
1	N	nitro	4 – methoxyphenyl
1	N	nitro	2, 3 - dimethoxyphenyl
1	N	nitro	2, 4 - dimethoxyphenyl
1	N	nitro	3, 4 - dimethoxyphenyl
1	N	nitro	3, 4, 5 - trimethoxyphenyl
1	N	nitro	3, 4 - ( methylenedioxy ) phenyl
1	N	nitro	2 - trifluoromethylphenyl
1	N	nitro	3 - trifluoromethylphenyl
1	N	nitro	4 - trifluoromethylphenyl
1	CH	nitro	phenyl
1	N	nitro	2 – thienyl
1	N	nitro	3 - thienyl
1	N	nitro	2 – furyl
1	N	nitro	3 – furyl
1	N	nitro	2 – pyridyl
1	N	nitro	3 – pyridyl
1	N	nitro	4 – pyridyl

Table 18(continuation 1)

m	W	R <sup>1</sup>	Z
2	N	nitro	phenyl
2	N	nitro	2 – fluorophenyl
2	N	nitro	3 – fluorophenyl
2	N	nitro	4 – fluorophenyl
2	N	nitro	2, 4 - difluorophenyl
2	N	nitro	3, 4 - difluorophenyl
2	N	nitro	2 - chlorophenyl
2	N	nitro	3 - chlorophenyl
2	N	nitro	4 – chlorophenyl
2	N	nitro	4 – bromophenyl
2	N	nitro	2 – methylphenyl
2	N	nitro	3 - methylphenyl
2	N	nitro	4 – methylphenyl
2	N	nitro	2, 3 - dimethylphenyl
2	N	nitro	2, 4 - dimethylphenyl
2 2 2 2 2 2 2	N	nitro	3, 4 - dimethylphenyl
2	N	nitro	2 – methoxyphenyl
2	N	nitro	3 – methoxyphenyl
2	N	nitro	4 – methoxyphenyl
2	N	nitro	2, 3 - dimethoxyphenyl
2	N	nitro	2, 4 - dimethoxyphenyl
2	N	nitro	3, 4 - dimethoxyphenyl
2 2 2	N	nitro	3, 4, 5 - trimethoxyphenyl
	N	nitro	3, 4 - ( methylenedioxy ) phenyl
2	N	nitro	2 - trifluoromethylphenyl
2	N	nitro	3 - trifluoromethylphenyl
2	N	nitro	4 - trifluoromethylphenyl
2	N	nitro	2 – thienyl
2	N	nitro	3 – thienyl
2	N	nitro	2 – furyl
2	N	nitro	3 – furyl
2	N	nitro	2 – pyridyl
2	N	nitro	3 – pyridyl
2	N	nitro	4 – pyridyl

Table 19

 $\mathbb{R}^1$ 

HN (CH<sub>2</sub>)<sub>m</sub>

### Each substituent in the formula above is as follows:

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R' Z m 1 nitro phenyl 1 nitro 2 - fluorophenyl 1 nitro 3 - fluorophenyl 1 4 - fluorophenyl nitro 1 2, 4 - difluorophenyl nitro 1 2, 5 - difluorophenyl nitro 1 nitro 2, 6 - difluorophenyl 1 3, 4 - difluorophenyl nitro 3, 5 - difluorophenyl nitro 1 nitro 2 - chlorophenyl 3 - chlorophenyl 1 nitro 1 4 - chlorophenyl nitro 1 2, 3 - dichlorophenyl nitro 1 nitro 3, 4 - dichlorophenyl 1 nitro 2 – bromophenyl 1 3 - bromophenyl nitro nitro 4 - bromophenyl nitro 2 - methylphenyl 1 3 - methylphenyl nitro 1 nitro 4 - methylphenyl 4 - ethylphenyl nitro 1 nitro 4 - propylphenyl 1 nitro 4 – isopropylphenyl 1 4 - butylphenyl nitro 1 nitro 2, 3 - dimethylphenyl 1 nitro 2, 4 - dimethylphenyl 1 nitro 3, 4 - dimethylphenyl 1 nitro 2 - methoxyphenyl .1 nitro 3 - methoxyphenyl 1 nitro 4 - methoxyphenyl 4 - ethoxyphenyl nitro nitro 4 - propoxyphenyl

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# Table 19(continuation 1)

	m	R¹	Z
5	1	nitro	4 - isopropoxyphenyl
	1	nitro	2, 3 – dimethoxyphenyl
	1	nitro	2, 4 - dimethoxyphenyl
	1	nitro	3, 4 - dimethoxyphenyl
	1	nitro	3, 4 - ( methylenedioxy ) phenyl
10	1	nitro	3, 4, 5 - trimethoxyphenyl
	1	nitro	2 - hydroxyphenyl
	1	nitro	3 – hydroxyphenyl
	1	nitro	4 – hydroxyphenyl
15	1	nitro	2 – aminophenyl
13	i	nitro	3 – aminophenyl
	1	nitro	4 - aminophenyl
	1	nitro	2 - ( methylamino ) phenyl
	1	nitro	3 – ( methylamino ) phenyl
20	l i	nitro	4 – ( methylamino ) phenyl
	1	nitro	3 - (dimethylamino) phenyl
	1	nitro	2 – carboxyphenyl
	1	nitro	3 – carboxyphenyl
	1	nitro	4 – carboxyphenyl
25	1	nitro	2 - ( methylcarbamoyl ) phenyl
	1	nitro	3 – ( methylcarbamoyl ) phenyl
	1	nitro	4 - ( methylcarbamoyl ) phenyl
	1	nitro	2 - ( methoxycarbonyl ) phenyl
	1	nitro	3 - (methoxycarbonyl) phenyl
30	<del>                                     </del>	nitro	4 - (methoxycarbonyl) phenyl
	1	nitro	2 - (ethoxycarbonyl) phenyl
	<del>l i</del>	nitro	3 - (ethoxycarbonyl) phenyl
	i	nitro	4 – (ethoxycarbonyl) phenyl
35	$\frac{1}{1}$	nitro	2 – (acetyloxy) phenyl
33	1	nitro	3 – (acetyloxy) phenyl
	1	nitro	4 – (acetyloxy) phenyl
	1	nitro	2 – (propionyloxy) phenyl
	1	nitro	3 – (propionyloxy) phenyl
40	$\frac{1}{1}$	nitro	4 – (propionyloxy) phenyl
	1	nitro	2 - trifluoromethylphenyl
	1	nitro	3 - trifluoromethylphenyl
	$\frac{1}{1}$	nitro	4 - trifluoromethylphenyl
	1	nitro	2 – thienyl
45	1	nitro	3 – thienyl
	1	nitro	2 – furyl
	1	nitro	3 – furyl
			2 – pyridyl
	1	nitro	
50		nitro	3 – pyridyl
	1	nitro	4 – pyridyl
	2	nitro	phenyl
	2	nitro	2 – fluorophenyl
	2	nitro	3 – fluorophenyl
55	2	nitro	4 - fluorophenyl

Table 19(continuation 2)

con

m	R¹	Z
2	nitro	2, 4 – difluorophenyl
2	nitro	2, 5 – difluorophenyl
2	nitro	2, 6 – difluorophenyl
2	nitro	3, 4 – difluorophenyl
2	nitro	3, 5 – difluorophenyl
2	nitro	2 - chlorophenyl
2	nitro	3 - chlorophenyl
		4 – chlorophenyl
2	nitro nitro	2, 3 – dichlorophenyl
	nitro	3, 4 – dichlorophenyl
2		2 – bromophenyl
2	nitro	
	nitro	3 – bromophenyl
2	nitro	4 bromophenyl
1 2	nitro	2 – methylphenyl 3 – methylphenyl
2 2 2	nitro	4 – methylphenyl
1 2	nitro	
2	nitro	4 – ethylphenyl 4 – propylphenyl
2	nitro	
2	nitro	4 – isopropylphenyl
	nitro nitro	4 – butylphenyl 2, 3 – dimethylphenyl
2	nitro	2, 4 – dimethylphenyl
2	nitro	3, 4 – dimethylphenyl
2	nitro	2 - methoxyphenyl
2	nitro	3 - methoxyphenyl
2	nitro	4 - methoxyphenyl
1 2	nitro	4 - ethoxyphenyl
1 2	nitro	4 - propoxyphenyl
1 2	nitro	4 - isopropoxyphenyl
1 2	nitro	2, 3 – dimethoxyphenyl
1 2	nitro	2, 4 – dimethoxyphenyl
2	nitro	3, 4 - dimethoxyphenyl
1 2	nitro	3, 4 - (methylenedioxy) phenyl
2 2 2 2 2 2 2 2 2 2 2 2	nitro	3, 4, 5 - trimethoxyphenyl
2	nitro	2 - hydroxyphenyl
1 2	nitro	3 – hydroxyphenyl
2	nitro	4 – hydroxyphenyl
	nitro	2 – aminophenyl
2	nitro	3 – aminophenyl
2	nitro	4 – aminophenyl
2	nitro	2 – ( methylamino ) phenyl
2		3 – (methylamino) phenyl
2	nitro	
2	nitro	4 - (methylamino) phenyl
2	nitro	3 - (dimethylamino) phenyl
2	nitro	2 – carboxyphenyl
2	nitro	3 – carboxyphenyl
2 2 2 2 2	nitro	4 – carboxyphenyl
2	nitro	2 - ( methylcarbamoyl ) phenyl

# Table 19(continuation 3)

m	R¹	Z
2	nitro	3 - ( methylcarbamoyl ) phenyl
2	nitro	4 - ( methylcarbamoyl ) phenyl
2	nitro	2 - ( methoxycarbonyl ) phenyl
2	nitro	3 - ( methoxycarbonyl ) phenyl
2	nitro	4 - ( methoxycarbonyl ) phenyl
2	nitro	2 - (ethoxycarbonyl) phenyl
2	nitro	3 – ( ethoxycarbonyl ) phenyl
2	nitro	4 - (ethoxycarbonyl) phenyl
2	nitro	2 – ( acetyloxy ) phenyl
2	nitro	3 – ( acetyloxy ) phenyl
2	nitro	4 - ( acetyloxy ) phenyl
2	nitro	2 – ( propionyloxy ) phenyl
2	nitro	3 – ( propionyloxy ) phenyl
2	nitro	4 – ( propionyloxy ) phenyl
2	nitro	2 - trifluoromethylphenyl
2	nitro	3 - trifluoromethylphenyl
2	nitro	4 - trifluoromethylphenyl
2	nitro	2 – thienyl
2	nitro	3 – thienyl
2	nitro	2 – furyl
2	nitro	3 – furyl
2	nitro	2 – pyridyl
2	nitro	3 – pyridyl
2	nitro	4 – pyridyl

Table 20

# Each substituent in the formula above is as follows:

m	R <sup>1</sup>	Z
1	nitro	phenyl
2	nitro	phenyl
1	nitro	4 – fluorophenyl
2	nitro	4 – fluorophenyl
1	nitro	4 – chlorophenyl
2	nitro	4 – chlorophenyl
1	nitro	4 – methylphenyl
2	nitro	4 – methylphenyl
1	nitro	2, 4, 6 - trimethylphenyl
2	nitro	2, 4, 6 - trimethylphenyl
1	nitro	2, 4, 6 - triisopropylphenyl
2	nitro	2, 4, 6 - triisopropylphenyl
1	nitro	4 – methoxyphenyl
2	nitro	4 – methoxyphenyl
1	nitro	2 - nitrophenyl
2	nitro	2 - nitrophenyl
1	nitro	3 - nitrophenyl
2	nitro	3 - nitrophenyl
1	nitro	4 - nitrophenyl
2	nitro	4 - nitrophenyl
1	nitro	3 - aminophenyl
2	nitro	3 - aminophenyl
1	nitro	4 - aminophenyl
2	nitro	4 - aminophenyl
1	nitro	l – naphthyl
2	nitro	l – naphthyl
1	nitro	2 – naphthyl
2	nitro	2 – naphthyl
1	pitro	1 - thienyl
2	nitro	1 – thienyl

[0052] Next, the manufacturing methods of the compounds of the present invention will be explained in detail. The starting compounds which are not described in the following sections can be produced according to the following

methods, or known methods or methods based thereon.

[0053] Manufacturing method 1: The compound (1a) wherein R<sub>1</sub> is a nitro group can be prepared according to the following reaction steps.

5 step 1 10 (2) (3) 15 step 4 step 2 20 25 (5) (7) 30 step 3 step 5 35 step 6 H-X-Y-40 (4)

(wherein R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, X, Y, Z, W and m are as defined above, Q is halogen atom, alkylsulfonyloxy group such as methanesulfonyloxy and ethanesulfonyloxy, or substituted or unsubstituted arylsulfonyloxy group such as benzenesulfonyloxy or methylbenzenesulfonyloxy.)

(8)

(la)

[0054] The starting material (2) can be obtained according to the known methods [J. Org. Chem., 40, 356(1975), etc.]

(Step 1-1)

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[0055] The compound (3a), wherein Q of the compound (3) is a halogen atom, can be obtained by reacting the compound (2) with a halogenating agent, without solvent or with a solvent of 1 to 100 times in volume, at between room temperature and the reflux temperature of the solvent used (in the case of non-solvent condition, reaction temperature is between room temperature and the boiling point of the halogenating agent) for 0.5 to 10 hours. The halogenating agent includes chlorination agent such as phosphorus oxychloride and phosphorus pentachloride and bro-

mination agent such as phosphorus pentabromide and thionyl bromide. The solvent includes halogen-containing solvents such as chloroform, dichloromethane and dichloroethane, aromatic solvent such as benzene, toluene and xylene and ester solvent such as ethyl acetate, propyl acetate and butyl acetate.

(Step 1-2)

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[0056] The compound (3b), wherein Q of the compound (3) is alkylsulfonyloxy, or substituted or unsubstituted arysulfonyloxy group, can be obtained by reacting the compound (2) with an alkylsulfonyl chloride, or substituted or unsubstituted arylsulfonyl chloride, in the presence of a 2 to 20 equivalent base, without solvent or with a solvent of 1 to 100 times in volume, at between 0 °C and the reflux temperature of the solvent used, for 0.5 to 12 hours. The base includes an Inorganic base such as sodium hydride, potassium carbonate and sodium carbonate, and an organic base such as triethyl amine, diisopropylethyl amine, pyridine and 2,6-lutidine. The solvent includes halogen-containing solvent such as chloroform, dichloromethane and dichloroethane, aromatic solvent such as benzene, toluene and xylene, ester solvent such as ethyl acetate, propyl acetate and butyl acetate, and N,N-dimethylformamide.

(Step 2)

[0057] The compound (5) can be obtained by reacting the compound (3) with a primary or secondary amine (4), in the presence of a base, in a solvent of 1 to 100 times in volume, at between 0 °C and the reflux temperature of the solvent used, for 0.5 to 12 hours. The base includes an inorganic base such as sodium hydride, potassium carbonate and potassium tert-butoxide, and an organic base such as triethyl amine, diisopropylethyl amine, pyridine and 2,6-lutidine. The solvent includes ether solvent such as diethyl ether, tetrahydrofuran and dioxane, halogen-containing solvent such as chloroform, dichloromethane and dichloroethane, aromatic solvent such as benzene, toluene and xylene, ester solvent such as ethyl acetate, propyl acetate and butyl acetate, water, and N,N-dimethylformamide.

(Step 3)

[0058] The compound (1) can be obtained by reacting the compound (5) with a cyclic amine (6), in the presence of a base, in a solvent of 1 to 100 times in volume, at between 0 °C and the reflux temperature of the solvent used, for 0.5 to 12 hours. The base includes an inorganic base such as sodium hydride, potassium carbonate and potassium tert-butoxide, and an organic base such as triethyl amine, diisopropylethyl amine, pyridine and 2,6-lutidine. The solvent includes ether solvent such as diethyl ether, tetrahydrofuran and dioxane, halogen-containing solvent such as chloroform, dichloromethane and dichloroethane, aromatic solvent such as benzene, toluene and xylene, ester solvent such as ethyl acetate, propyl acetate and butyl acetate, water, and N,N-dimethylformamide.

(Step 4)

[0059] The compound (7) can be obtained by reacting the compound (2) with a cyclic amine (6), in the presence of a base, in a solvent of 1 to 100 times in volume, at between 0 °C and the reflux temperature of the solvent used, for 0.5 to 12 hours. The base includes an inorganic base such as sodium hydride, potassium carbonate and potassium tert-butoxide, and an organic base such as triethyl amine, diisopropylethyl amine, pyridine and 2,6-lutidine. The solvent includes ether solvent such as diethyl ether, tetrahydrofuran and dioxane, halogen-containing solvent such as chloroform, dichloromethane and dichloroethane, aromatic solvent such as benzene, toluene and xylene, ester solvent such as ethyl acetate, propyl acetate and butyl acetate, water, and N,N-dimethylformamide.

(Step 5-1)

[0060] The compound (8a), wherein Q of the compound (8) Is a halogen atom, can be obtained by reacting the compound (7) with a halogenating agent, without solvent or with a solvent of 1 to 100 times in volume, at between room temperature and the reflux temperature of the solvent used (in the case of non-solvent condition, reaction temperature is between room temperature and the boiling point of the halogenating agent) for 0.5 to 10 hours. The halogenating agent and solvent are the same as those used in the preparation of the compound (3a).

(Step 5-2)

[0061] The compound (8b), wherein Q of the compound (8) is alkylsulfonyloxy, or substituted or unsubstituted arysulfonyloxy group, can be obtained by reacting the compound (7) with an alkylsulfonyl chloride, or substituted or unsubstituted arylsulfonyl chloride, in the presence of a 2 to 20 equivalent base, without solvent or with a solvent of 1 to 100

times in volume, at between 0 °C and the reflux temperature of the solvent used, for 0.5 to 12 hours. The base and solvent are the same as those used in the preparation of the compound (3b).

(Step 6)

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[0062] The compound (1) can be obtained by reacting the compound (8) with a primary or secondary amine (4), in the presence of a base, in a solvent of 1 to 100 times in volume, at between 0 °C and the reflux temperature of the solvent used, for 0.5 to 12 hours. The base and solvent are the same as those used in the preparation of the compound (5).

[0063] Manufacturing method 2: The compound (1b) wherein R, is a halogen atom can be prepared according to the following reaction steps.

$$\begin{array}{c|c}
 & \text{step 1} \\
 & \text{v} \\
 & \text{NH}_1 \\
 & \text{(10)} \\
 & \text{R}^1 \\
 & \text{(CH}_1)_m \\
 & \text{(4)} \\
\end{array}$$

(wherein R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, X, Y, Z, W and m are as defined above, V<sup>1</sup>, V<sup>2</sup> and Q is halogen atom, alkylsulfonyloxy group such as methanesulfonyloxy and ethanesulfonyloxy, or substituted or unsubstituted arylsulfonyloxy group such as benzenesulfonyloxy or methylbenzenesulfonyloxy.)

(Step 1)

[0064] The compound (10) can be obtained by reacting the compound (9) obtained according to the known methods with formic acid or trimethyl orthoformate, in the presence of an acid, at a temperature of between room temperature and 100 °C for 0.5 to 10 hours. The acid includes an inorganic acid such as hydrochloric acid and an organic acid such

as p-toluenesulfonic acid and camphorsulfonic acid.

(Step 2)

[0065] The compound (11) can be obtained by reacting the compound (10) with a cyclic amine (6), in the presence of a base, in a solvent of 1 to 100 times in volume, at between 0 °C and the reflux temperature of the solvent used, for 0.5 to 12 hours. The base includes an inorganic base such as sodium hydride, potassium carbonate and potassium tert-butoxide, and an organic base such as triethyl amine, diisopropylethyl amine, pyridine and 2,6-lutidine. The solvent includes ether solvent such as diethyl ether, tetrahydrofuran and dioxane, halogen-containing solvent such as chloroform, dichloromethane and dichloroethane, aromatic solvent such as benzene, toluene and xylene, ester solvent such as ethyl acetate, propyl acetate and butyl acetate, water, and N,N-dimethylformamide.

(Step 3-1)

[0066] The compound (12a), wherein Q of the compound(12) is a halogen atom, can be obtained by reacting the compound (11) with a halogenating agent, without solvent or with a solvent of 1 to 100 times in volume, at between room temperature and the reflux temperature of the solvent used, for 0.5 to 10 hours. The halogenating agent includes chlorination agent such as phosphorus oxychloride and phosphorus pentachloride and bromination agent such as phosphorus pentabromide and thionyl bromide. The solvent includes halogen-containing solvent such as chloroform, dichloromethane and dichloroethane, aromatic solvent such as benzene, toluene and xylene and ester solvent such as ethyl acetate, propyl acetate and butyl acetate.

(Step 3-2)

25 [0067] The compound (12b), wherein Q of the compound(12) is alkylsulfonyloxy, or substituted or unsubstituted arysulfonyloxy group, can be obtained by reacting the compound (11) with an alkylsulfonyl chloride, or substituted or unsubstituted arylsulfonyl chloride, in the presence of a 2 to 20 equivalent base, without solvent or with a solvent of 1 to 100 times in volume, at between 0 °C and the reflux temperature of the solvent used, for 0.5 to 12 hours. The base includes an inorganic base such as sodium hydride, potassium carbonate and sodium carbonate, and an organic base such as triethyl amine, diisopropylethyl amine, pyridine and 2,6-lutidine. The solvent includes halogen-containing solvent such as chloroform, dichloromethane and dichloroethane, aromatic solvent such as benzene, toluene and xylene, ester solvent such as ethyl acetate, propyl acetate and butyl acetate, and N,N-dimethylformamide.

(Step 4)

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[0068] The compound (1b) can be obtained by reacting the compound (12) with a primary or secondary amine (4), in the presence of a base, in a solvent of I to 100 times in volume, at between 0 °C and the reflux temperature of the solvent used, for 0.5 to 12 hours. The base includes an inorganic base such as sodium hydride, potassium carbonate and potassium tert-butoxide, and an organic base such as triethyl amine, diisopropylethyl amine, pyridine and 2,6-lutidine. The solvent includes ether solvent such as diethyl ether, tetrahydrofuran and dioxane, halogen-containing solvent such as chloroform, dichloromethane and dichloroethane, aromatic solvent such as benzene, toluene and xylene, ester solvent such as ethyl acetate, propyl acetate and butyl acetate, water, and N,N-dimethylformamide.

[0069] The intermediates and end products in the above-mentioned manufacturing methods can be isolated or purified by conventional methods. For example, they can be isolated or purified using neutralization, filtration, extraction, drying, concentration, recrystallization and various kinds of chromatography. The solvent for recrystallization includes, for example, alcohol solvent such as methanol, ethanol and 2-propanol, ether solvent such as diethyl ether, ester solvent such as ethyl acetate, aromatic hydrocarbon solvent such as toluene, ketone solvent such as acetone, hydrocarbon solvent such as hexane and mixed solvents thereof. It is also possible for the intermediates to be used in the next steps without any purification.

[0070] In case that a salt of the compound (1) is desired to be obtained, if the compound (1) is obtained in the form of a salt it is purified as it is, and if obtained in a free form it is dissolved or suspended in a suitable solvent and convert it into a salt by adding an acid. And, it is possible to transform the compound (1) obtained in the form of a salt into a free compound and then to convert it into the form of a desired salt.

[0071] Upon carrying out the above reactions, it is possible to use the techniques of protection and deprotection for functional group, which are described in detail in T. W. Green and P. G. M. Wuts, "Protecting Groups in Organic Synthesis", 1990.

[0072] As the medicaments of the present invention there can be used substances selected from the group consisting of compounds represented by the general formula (1) and pharmaceutically acceptable salts thereof, or there can be

used hydrates or solvates thereof. It is also possible to use these substances in a proper combination of two or more. A substance per se selected from the group may be administered as a medicament of the present invention, but usually it is preferable to administer in the form of a medicament composition containing the above substance as an effective ingredient and pharmaceutically acceptable preparation additives.

[0073] The medicament composition applied for the living body can easily be produced according to the preparation methods commonly used in the field of pharmacology, that is, by mixing the above substance as effective ingredient and one or two or more kinds of pharmaceutically acceptable preparation additives. The administration route of the medicament of the present invention is not limited in particular, but it is preferable to properly choice the most effective route in the treatment and/or prevention. The medicinal composition suitable for oral administration includes, for example, capsules, powders, tablets, granules, fine grains, syrups, solutions and suspensions, and the medicament composition suitable for parenteral administration includes, for example, absorbents, nebulas, intrarectal administration medicaments, injections, drops, ointments, creams, transdermal absorbents, transmucosa absorbents, eyedrops, collunarium, eardrops, tapes and patches. The forms of the medicaments of the present invention, however, are not limited to these.

[0074] Of the medicinal compositions suitable for oral administration, liquid preparations such as emulsions and syrups can be manufactured using preparation additives such as water; saccharides such as saccharose, sorbit and fructose; glycols such as polyethylene glycol and propylene glycol; oils such as sesame oil, olive oil and soybean oil; antiseptics such as p-hydroxybenzoic acid ester; and flavors such as strawberry flavor and peppermint flavor. The solid preparations such as capsules, tablets, powders and granules can be manufactured using excipients such as lactose, glucose, saccharose and mannitol; disintegrating agents such as starch and sodium alginate; lubricants such as magnesium stearate and talc; binders such as polyvinyl alcohol, hydroxypropyl cellulose and gelatin; surfactants such as fatty acid ester; and plasticizers such as glycerol.

[0075] Of the medicament compositions suitable for parenteral administration, liquid preparations in the form of injections, drops and eyedrops can preferably be manufactured as sterilized isotonic liquid preparations. For example, the injections can be prepared using a salt solution, a glucose solution or an aqueous medium consisting of a mixture of salt water and glucose solution. The intrarectal administration agents can be prepared usually in the form of suppository using carriers such as cacao fat, hydrogenated fat and hydrogenated carboxylic acid. Further, for the preparation of the nebulas there can be used non-irritating carriers which disperse the above substance of the effective ingredient as fine particles to facilitate absorption. As such carriers, it is possible to enumerate lactose and glycerol and to select the forms of aerosol and drypowder as the form of the preparations. Further, in the production of the medicament compositions for parenteral administration, there can optionally be used one kind, or two or more kinds of preparation additives selected from diluents, flavors, antiseptics, excipients, disintegrating agents, lubricants, binders, surfactants and plasticizers which have been illustrated in the oral administration agents. The preparation additives used for the manufacture of the medicaments of the present invention are not limited to those mentioned above, and any can be used as long as it is utilizable for a person skilled in the art.

[0076] The dose and frequency of administration of the medicaments of the present invention are not limited in particular, and generally, in the case of oral administration, it is possible to administer a dose in the range of about 1 to about 1000 mg, preferably about 10 to about 500 mg per day for an adult in one portion or in several portions. In the case of administration as an injection medicament, the dose ranging about 0.1 to about 500 mg, preferably about 3 to about 100 mg can be administered in one portion or in several portions.

[0077] This specification includes part or all of the contents as disclosed in the specification of Japanese Patent Application No. 11-282078, which is the base of priority of the present invention.

Best Mode for Embodying the Invention

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[0078] The present invention will hereinafter be explained more in detail by way of Examples and Reference examples, but the scope of the present invention is limited in no way by the following Examples.

Reference example 1: 2-amino-4-chlorobenzamide

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[0079] 4-Chloroanthranilic acid (75 g, 0.437 mol) was suspended in dichloromethane (1.09 1). To this suspension, triethylamine (73 ml, 0.524 mol) and diphenylphosphoryl chloride (141 g, 0.524 mol) were added successively, and the mixture was stirred at room temperature for 1 hour. Then, 28% aqueous ammonia (44 ml) was added, and the mixture was further stirred at room temperature for 2 hours. After completion of the reaction, the reaction solution was filtrated, the filtrated crude crystal was washed with methanol to give 51.0 g (yield 68%) of the title compound as yellow crystal.

Reference example 2: 7-chloro-4(3H)-quinazolone

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[0080] 2-Amino-4-chlorobenzamide (25.6 g, 0.150 mol) obtained in Reference example 1 was dissolved in trimethyl orthoformate (560 ml), and to this added was concentrated hydrochloric acid (15 ml), and the mixture was stirred at room temperature for 1 hour. After completion of the reaction, the reaction solution was filtered, and the crude crystal filtered was suspended in water (250 ml) and neutralized with 3N NaOH aqueous solution. The neutralized solution was filtered, the solid being washed with water on the funnel to give 20.9 g (yield 77%) of the title compound as white crystal.

10 Reference example 3: 7-chloro-6-nitro-4(3H)-quinazolone

[0081] 7-Chloro-4(3H)-quinazolone (20.9 g, 0.116 mmol) obtained in Reference example 2 was dissolved in a mixed solution of concentrated sulfuric acid (45 ml) and furning nitric acid (45 ml) and stirred at 80 °C for 2 hours. After completion of the reaction, the reaction solution was cooled to room temperature and poured into ice water (900 ml). The precipitated solid was filtered off, and the filtered crude crystal was suspended in acetic acid (440 ml) and stirred at 80 °C for 1 hour. After cooling to 40 °C, the precipitated crystal was subjected to filtration and washed with water on the funnel to give 15.7 g (yied 60%) of the title compound as pale yellow crystal.

Reference example 4: 4,7-dichloro-6-nitro-4(3H)-quinazolone

[0082] 7-Chloro-6-nitro-4(3H)-quinazolone (1.00 g, 4.43 mmol) obtained in Reference example 3 was added in phosphorus oxychloride (22 ml) and heated under reflux for 1 hour. After completion of the reaction, the reaction solution was cooled to room temperature, the solvent was removed under reduced pressure, the residue was added with a saturated sodium bicarbonate aqueous solution, and the solution was extracted with chloroform. The organic layer was washed with a 10% saline and dried, the solvent being removed. The precipitated crystal was washed with ethanol to give 888 mg (yield 82%) of the title compound as pale yellow crystal.

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Reference example 5: 7-chloro-4-[2-(4-chlorophenyl)ethylamino]-6-nitroquinazoline

[0083] 4,7-Dichloro-6-nitro-4(3H)-quinazolone (5.95 g, 24.4 mmol) obtained in Reference example 4 was suspended in ethanol (150 ml). To this suspension, 2-(4-chlorophenyl)ethylamine (4.07 ml, 29.3 mmol) and triethylamine (4.08 ml, 29.3 mmol) were added successively, and the mixture was heated under reflux for 5 hours. The reaction solution was cooled to room temperature, the solvent was removed under reduced pressure, and the residue was washed with dichloromethane to give 7.32 g (yield 83%) of the title compound as yellow crystal.

Reference example 6: 7-chloro-4-(phenethylamino)-6-nitroquinazoline

[0084] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 7: 7-chloro-4-(benzylamino)-6-nitroquinazoline

[0085] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 8: 7-chloro-4-(4-fluorobenzylamino)-6-nitroquinazoline

[0086] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 9: 7-chloro-4-[3,4-(methylenedioxy)benzylamino]-6-nitroquinazoline

[0087] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 10: 7-chloro-6-nitro-4-[3-(phenyl)propylamino]quinazoline

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[0088] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained

according to the same method as Reference example 5.

Reference example 11: 7-chloro-6-nitro-4-[(2-pyridyl)methylamino]quinazoline

5 [0089] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 12: 7-chloro-6-nitro-4-[2-(2-pyridyl)ethylamino]quinazoline

10 [0090] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 13: 7-chloro-6-nitro-4-[2-(3-pyridyl)ethylamino]quinazoline

15 [0091] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 14: 7-chloro-6-vitro-4-[2-(4-pyridyl)ethylamino]quinazoline

20 [0092] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 15: 7-chloro-6-nitro-4-[(2-thienyl)methylamino]quinazoline

25 [0093] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 16: 7-chloro-6-nitro-4-[2-(2-thienyl)ethylamino]quinazoline

30 [0094] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 17: 7-chloro-4-[(2-furyl)methylamino]-6-nitroquinazoline

35 [0095] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 18: 7-chloro-4-[(1-naphthyl)methylamino]-6-nitroquinazoline

40 [0096] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 19: 7-chloro-4-(4-chlorobenzylamino)-6-nitroquinazoline

45 [0097] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 20: 7-chloro-4-(2-fluorobenzylamino)-6-nitroquinazoline

[0098] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 21: 7-chloro-4-(3-fluorobenzylamino)-6-nitroquinazoline

55 [0099] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 22: 7-chloro-6-nitro-4-[4-(1,1,1-trifluoromethyl)benzylamino]quinazoline

[0100] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 23: 7-chloro-4-(4-methylbenzylamino)-6-nitroquinazoline

[0101] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 24: 7-chloro-4-(2-methoxybenzylamino)-6-nitroquinazoline

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[0102] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 25: 7-chloro-4-(3-methoxybenzylamino)-6-nitroquinazoline

[0103] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

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Reference example 26: 7-chloro-4-(4-methoxybenzylamino)-6-nitroquinazoline

[0104] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 27: 7-chloro-4-(3,4-dimethoxybenzylamino)-6-nitroquinazoline

[0105] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 28: 7-chloro-6-nitro-4-(3,4,5-trimethoxybenzylamino)quinazoline

[0106] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 29: 7-chloro-4-[2-(2-chlorophenyl)ethylamino]-6-nitroquinazoline

[0107] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 30: 7-chloro-4-[2-(3-chlorophenyl)ethylamino]-6-nitroquinazoline

[0108] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 31: 4-[2-(4-bromophenyl)ethylamino]-7-chloro-6-nitroquinazoline

[0109] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 32: 7-chloro-4-[2-(2-fluorophenyl)ethylamino]-6-nitroquinazoline

[0110] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 33: 7-chloro-4-[2-(3-fluorophenyl)ethylamino]-6-nitroquinazoline

[0111] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained

according to the same method as Reference example 5.

Reference example 34: 7-chloro-4-[2-(4-fluorophenyl)ethylamino]-6-nitroquinazoline

5 [0112] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 35: 7-chloro-4-[2-(4-methylphenyl)ethylamino]-6-nitroquinazoline

10 [0113] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 36: 7-chloro-4-[2-(2-methoxyphenyl)ethylamino]-6-nitroquinazoline

15 [0114] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 37: 7-chloro-4-[2-(3-methoxyphenyl)ethylamino]-6-nitroquinazoline

20 [0115] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

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Reference example 38: 7-chloro-4-[2-(4-methoxyphenyl)ethylamino]-6-nitroquinazoline

25 [0116] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 39: 7-chloro-4-[2-(3,4-dimethoxyphenyl)ethylamino]-6-nitroquinazoline

30 [0117] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 40: 7-chloro-4-[2-(4-hydroxyphenyl)ethylamino]-6-nitroquinazoline

35 [0118] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 41: 4-[2-(4-anilino)ethylamino]-7-chloro-6-nitroquinazoline

40 [0119] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 42: 7-chloro-4-(2-methyl-2-phenylethylamino)-6-nitroquinazoline

45 [0120] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 43: 7-chloro-4-(2,2-diphenylethylamino)-6-nitroquinazoline

50 [0121] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 44: 7-chloro-4-(N-methylbenzylamino)-6-nitroquinazoline

55 [0122] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 45: 7-chloro-4-(dibenzylamino)-6-nitroquinazoline

[0123] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 46: 4-[(1-benzyl-4-piperidyl)amino-7-chloro-6-nitroquinazoline

[0124] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 47: N-(1-benzyl-4-piperldyl)-tert-butoxyformamide

[0125] The title compound was obtained by reacting 4-amino-1-benzylpiperidine with di-tert-butyl dicarbonate in THF at room temperature for 3 hours in the presence of triethylamine.

Reference example 48: tert-butoxy-N-(4-piperidyl)formamide

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[0126] Using the compound obtained in Reference example 47 as starting material, the title compound was obtained by catalytic hydrogenation reduction in ethanol using 5% palladium on carbon as the catalyst.

Reference example 49: N-[1-(4-methoxybenzyl-4-piperidyl)]-tert-butoxyformamide

[0127] Using the compound obtained in Reference example 48 as starting material, the title compound was obtained by reacting it with 4-methoxybenzyl chloride in dimethylformamide in the presence of potassium carbonate.

Reference example 50: 1-(4-methoxybenzyl)-4-piperidylamine

[0128] Using the compound obtained in Reference example 49 as starting material, the title compound was obtained by performing the reaction in a 4N hydrochloric acid-dioxane solution.

Reference example 51: N-(1-benzoyl-piperidyl)-tert-butoxyformamide

[0129] Using the compound obtained in Reference example 48 as starting material, the title compound was obtained by reacting it with benzoyl chloride in dichloromethane in the presence of triethylamine.

Reference example 52: 4-aminopiperidyl-phenylketone

[0130] Using the compound obtained in Reference example 51 as starting material, the title compound was obtained by performing the reaction in a 4N hydrochloric acid-dioxane solution.

Reference example 53: N-(1-(3,4-methylenedioxy)benzoyl-piperidyl)-tert-butoxyformamide

[0131] Using the compound obtained in Reference example 48 as starting material, the title compound was obtained by reacting it with piperonyloyl chloride in dichloromethane in the presence of triethylamine.

Reference example 54: 4-aminopiperidyl-[(3,4-methylenedioxy)phenyl]ketone

[0132] Using the compound obtained in Reference example 53 as starting material, the title compound was obtained by performing the reaction in a 4N hydrochloric acid-dioxane solution.

Reference example 55: N-(1-nicotinoyl-piperidyl)-tert-butoxyformamide

[0133] Using the compound obtained in Reference example 48 as starting material, the title compound was obtained by reacting it with nicotinoyl chloride in dichloromethane in the presence of triethylamine.

Reference example 56: 4-aminopiperidyl-(3-pyridyl)ketone

[0134] Using the compound obtained in Reference example 55 as starting material, the title compound was obtained

by performing the reaction in a 4N hydrochloric acid-dioxane solution.

Reference example 57: N-[1-(N-phenylcarbamoyl)-4-piperidyl)-tert-butoxyformamide

5 [0135] Using the compound obtained in Reference example 48 as starting material, the title compound was obtained by reacting it with phenylisocyanate in acetonitrile.

Reference example 58: N-phenyl-4-aminopiperidylformamide

10 [0136] Using the compound obtained in Reference example 49 as starting material, the title compound was obtained by performing the reaction in a 4N hydrochloric acid-dioxane solution.

Reference example 59: N-[1-[N-(4-fluorophenyl)carbamoyl]-4-piperidyl)-tert-butoxyformamide

15 [0137] Using the compound obtained in Reference example 48 as starting material, the title compound was obtained by reacting it with 4-fluorophenylisocyanate in acetonitrile.

Reference example 60: N-(4-fluorophenyl)-4-aminopiperidylformamide

20 [0138] Using the compound obtained in Reference example 59 as starting material, the title compound was obtained by performing the reaction in a 4N hydrochloric acid-dioxane solution.

Reference example 61: N-[1-[N-(4-methoxyphenyl)carbamoyl]-4-piperidyl]-tert-butoxyformamide

25 [0139] Using the compound obtained in Reference example 48 as starting material, the title compound was obtained by reacting it with 4-methoxyphenyl isocyanate in acetonitrile.

Reference example 62: N-(4-methoxyphenyl)-4-aminopiperidylformamide

[0140] Using the compound obtained in Reference example 61 as starting material, the title compound was obtained by performing the reaction in a 4N hydrochloric acid-dioxane solution.

Reference example 63: N-[1-((phenylamino)thloxomethyl-4-piperidyl]-tert-butoxyformamide

35 [0141] Using the compound obtained in Reference example 48 as starting material, the title compound was obtained by reacting it with phenyl isothiocyanate in acetonitrile.

Reference example 64: (4-aminopiperidyl)(phenylamino) methane-1-thione

40 [0142] Using the compound obtained in Reference example 63 as starting material, the title compound was obtained by performing the reaction in a 4N hydrochloric acid-dioxane solution.

Reference example 65: N-[1-(phenylsulfonyl)-4-piperidyl]-tert-butoxyformamide

45 [0143] Using the compound obtained in Reference example 48 as starting material, the title compound was obtained by reacting it with benzenesulfonyl chloride in dichloromethane in the presence of triethylamine.

Reference example 66: 1-(phenylsulfonyl)-4-plperidylamine

[0144] Using the compound obtained in Reference example 65 as starting material, the title compound was obtained by performing the reaction in a 4N hydrochloric acid-dioxane solution.

Reference example 67: N-[1-(4-methoxyphenylsulfonyl)-4-piperidyl]-tert-butoxyformamide

55 [0145] Using the compound obtained in Reference example 48 as starting material, the title compound was obtained by reacting it with 4-methoxybenzenesulfonyl chloride in dichloromethane in the presence of triethylamine.

Reference example 68: 1-(4-methoxyphenylsulfonyl)-4-piperidylamine

[0146] Using the compound obtained in Reference example 67 as starting material, the title compound was obtained by performing the reaction in a 4N hydrochloric acid-dioxane solution.

Reference example 69: N-[1-(4-fluorophenylsulfonyl)-4-piperidyl]-tert-butoxyformamide

[0147] Using the compound obtained in Reference example 48 as starting material, the title compound was obtained by reacting it with 4-fluorobenzenesulfonyl chloride in dichloromethane in the presence of triethylamine.

Reference example 70: 1-(4-fluorophenylsulfonyl)-4-piperidylamine

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[0148] Using the compound obtained in Reference example 69 as starting material, the title compound was obtained by performing the reaction in a 4N hydrochloric acid-dioxane solution.

Reference example 71: 7-chloro-6-nitro-4-(4-phenylpiperazinyl)quinazoline

[0149] 4,7-Dichloro-6-nitro-4(3H)-quinazolone (138 mg, 0.576 mmol) obtained in Reference example 4 was suspended in ethanol (3 ml). To this suspension, 1-(4-chlorophenyl)piperazine dihydrochloride (186 mg, 0.689 mmol) and N,N-diisopropylethylamine (360 µl, 2.07 mmol) were added successively, and the mixture was stirred at room temperature over night. After completion of the reaction, the reaction solution was filtered, and the crude crystal was washed with ethanol and water to give 72 mg (yield 31%) of the title compound as yellow crystal.

Reference example 72: 4-benzylpiperazinylphenylketone

[0150] Using 1-benzylpiperazine as starting material, the title compound was obtained by reacting it with benzoyl chloride in dichloromethane in the presence of triethylamine.

Reference example 73: piperazinylphenylketone

[0151] Using the compound obtained in Reference example 72 as starting material, the title compound was obtained by catalytic hydrogenation reduction in ethanol using 5% palladium on carbon as the catalyst.

Reference example 74: 4-(7-chloro-6-nitroquinazolin-4-yl)piperazinyl-4-phenylketone

[0152] Using the compound obtained in Reference example 73, the title compound was obtained according to the same method as Reference example 71.

Reference example 75: 4-benzylpiperazinyl-4-fluorophenylketone

[0153] Using 1-benzylpiperazine as starting material, the title compound was obtained by reacting it with 4-fluor-obenzoyl chloride in dichloromethane in the presence of triethylamine.

Reference example 76: 4-fluorophenyl-piperazinylketone

[0154] Using the compound obtained in Reference example 75 as starting material, the title compound was obtained by catalytic hydrogenation reduction in ethanol using 5% palladium on carbon as the catalyst.

Reference example 77: 4-(7-chloro-6-nitroquinazolin-4-yl) piperazinyl-4-fluorophenylketone

[0155] Using the compound obtained in Reference example 76 as starting material, the title compound was obtained according to the same method as Reference example 71.

Reference example 78: 4-benzylpiperazinyl-4-methoxyphenylketone

[0156] Using 1-benzylpiperazine as starting material, the title compound was obtained by reacting it with 4-methoxybenzoyl chloride in dichloromethane in the presence of triethylamine.

Reference example 79: 4-methoxyphenyl-piperazinylketone

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[0157] Using the compound obtained in Reference example 78 as starting material, the title compound was obtained by catalytic hydrogenation reduction in ethanol using 5% palladium on carbon as the catalyst.

Reference example 80: 4-(7-chloro-6-nitroquinazolin-4-yl) piperazinyl-4-methoxyphenylketone

[0158] Using the compound obtained in Reference example 79 as starting material, the title compound was obtained according to the same method as Reference example 71.

Reference example 81: 4-benzylpiperazinyl-4-(3,4-methylenedioxy)phenylketone

[0159] Using 1-benzylpiperazine as starting material, the title compound was obtained by reacting it with piperonyloyl chloride in dichloromethane in the presence of triethylamine.

Reference example 82: (3,4-methylenedioxy)phenyl-piperazinylketone

[0160] Using the compound obtained in Reference example 81 as starting material, the title compound was obtained by catalytic hydrogenation reduction in ethanol using 5% palladium on carbon as the catalyst.

Reference example 83: 4-(7-chloro-6-nitroquinazolin-4-yl) piperazinyl-(3,4-methylenedioxy)phenylketone

[0161] Using the compound obtained in Reference example 82 as starting material, the title compound was obtained according to the same method as Reference example 71. Reference example 84: 4-(phenylsulfonyl)-1-benzylpiperazine Using 1-benzylpiperazine as starting material, the title compound was obtained by reacting it with benzenesulfonyl chloride in dichloromethane in the presence of triethylamine.

Reference example 85: phenylsulfonyl piperazine

[0162] Using the compound obtained in Reference example 84 as starting material, the title compound was obtained by catalytic hydrogenation reduction in ethanol using 5% palladium on carbon as the catalyst.

Reference example 86: 1-(7-chloro-6-nitroquinazolin-4-yl)-4-(phenylsulfonyl)piperazine

35 [0163] Using the compound obtained in Reference example 85 as starting material, the title compound was obtained according to the same method as Reference example 71.

Reference example 87: 4-(4-fluorophenylsulfonyl)-1-benzylpiperazine

40 [0164] Using 1-benzylpiperazine as starting material, the title compound was obtained by reacting it with 4-fluor-obenzenesulfonyl chloride in dichloromethane in the presence of triethylamine.

Reference example 88: 4-fluorophenylsulfonyl piperazine

Using the compound obtained in Reference example 87 as starting material, the title compound was obtained by catalytic hydrogenation reduction in ethanol using 5% palladium on carbon as the catalyst.

Reference example 89: 1-(7-chloro-6-nitroquinazolin-4-yl)-4-[(4-fluorophenyl)sulfonyl]piperazine

50 [0166] Using the compound obtained in Reference example 88 as starting material, the title compound was obtained according to the same method as Reference example 71.

Reference example 90: 2-amino-4,5-difluorobenzamide

55 [0167] Using 4,5-difluoroanthranilic acid as starting material, the title compound was obtained according to the same method as Reference example 1.

Reference example 91: 6.7-difluoro-4(3H)-quinazolone

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[0168] Using the compound obtained in Reference example 90 as starting material, the title compound was obtained according to the same method as Reference example 2.

Reference example 92: 4-chloro-6,7-difluoro-4(3H)-quinazolone

[0169] Using the compound obtained in Reference example 91 as starting material, the title compound was obtained according to the same method as Reference example 4.

Reference example 93: 6,7-difluoro-4-[2-(4-chlorophenyl)ethylamino]quinazoline

[0170] Using the compound obtained in Reference example 92 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 94: 6,7-difluoro-4-[2-(4-fluorophenyl)ethylamino]quinazoline

[0171] Using the compound obtained in Reference example 92 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 95: 6,7-difluoro-4-(4-fluorobenzylamino)quinazoline

[0172] Using the compound obtained in Reference example 92 as starting material, the title compound was obtained according to the same method as Reference example 5.

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Reference example 96: 6,7-difluoro-4-[3,4-(methylenedioxy)benzylamino)quinazoline

[0173] Using the compound obtained in Reference example 92 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 97: 6,7-difluoro-4-[(4-fluoro)anilino]quinazoline

[0174] Using the compound obtained in Reference example 92 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 98: 6,7-difluoro-4-[(3,4-methylenedioxy)anilino]quinazoline

[0175] Using the compound obtained in Reference example 92 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 99: 6,7-difluoro-4-{2-{(4-fluoro)phenyl]ethylamino]quinazoline

[0176] Using the compound obtained in Reference example 92 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 100: 6,7-difluoro-4-[2-[(3,4-methylenedioxy)phenyl]ethylamino]quinazoline

[0177] Using the compound obtained in Reference example 92 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 101: 6,7-difluoro-4-[3-[(4-fluoro)phenyl] propylamino]quinazoline

[0178] Using the compound obtained in Reference example 92 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 102: 6,7-difluoro-4-[3-{(3,4-methylenedioxy)phenyl]propylamino]quinazoline

[0179] Using the compound obtained in Reference example 92 as starting material, the title compound was obtained

according to the same method as Reference example 5.

Reference example 103: 6,7-difluoro-4-[(3,4-ethylenedioxy)benzylamino]quinazoline

- 5 [0180] Using the compound obtained in Reference example 92 as starting material, the title compound was obtained according to the same method as Reference example 5.
  - Reference example 104: 6,7-difluoro-4-[[N-methyl-N'-(3,4-methylenedioxybenzyl)]amino]quinazoline
- 10 [0181] Using the compound obtained in Reference example 92 as starting material, the title compound was obtained according to the same method as Reference example 5.
  - Reference example 105: 7-chloro-4-[(4-fluoro)anilino]-6-nitroquinazoline
- [0182] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.
  - Reference example 106: 7-chloro-4-{(3,4-methylenedioxy)anilino}-6-nitroquinazoline
- 20 [0183] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.
  - Reference example 107: 7-chloro-4-[2-(3,4-methylenedioxy)phenyl]ethylamino]-6-nitroquinazoline
- 25 [0184] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.
  - Reference example 108: 7-chloro-4-[3-[(4-fluoro)phenyl]propylamino]-6-nitroquinazoline
- 30 [0185] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.
  - Reference example 109: 7-chloro-4-[3-[(3,4-methylenedioxy)phenyl]propylamino]-6-nitroquinazoline
- 35 [0186] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.
  - Reference example 110: 7-chloro-4-[(3,4-difluoro)benzylamino]-6-nitroquinazoline
- 40 [0187] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.
  - Reference example 111: 7-chloro-4-[(4-ethoxycarbonyl)benzylamino]-6-nitroquinazoline
- 45 [0188] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.
  - Reference example 112: 7-chloro-4-[(3,4-ethylenedioxy)benzylamino]-6-nitroquinazoline
- 50 [0189] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.
  - Reference example 113: 7-chloro-4-[(3,5-di-tert-butyl-4-hydroxy)benzylamino]-6-nitroquinazoline
- 55 [0190] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 114: 7-chloro-4-[(3-methoxy-4-propoxy)benzylamino]-6-nitroquinazoline

[0191] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 115: 7-chloro-4-[(4-cyclopentyloxy-3-methoxy)benzylamino]-6-nitroquinazoline

[0192] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 116: 7-chloro-6-nitro-4-[(4-nitro) benzylamino]quinazoline

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[0193] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 117: 7-chloro-4-[(6-chloro-(3,4-methylenedioxy))benzylamino]-6-nitroquinazoline

[0194] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 118: 7-chloro-4-[[5-methoxy-(3,4-methylenedioxy)]benzylamino]-6-nitroquinazoline

[0195] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 119: 4-((4-benzyloxy)benzylamino)-7-chloro-6-nitroquinazoline

[0196] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 120: 4-[(4-acetamide)benzylamino]-7-chloro-6-nitroquinazoline

[0197] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 121: 7-chloro-4-[(4-cyclopropylcarbamoyl)benzylamino]-6-nitroquinazoline

[0198] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 122: 7-chloro-4-[(3,5-dimethyl-4-hydroxy)benzylamino]-6-nitroquinazoline

[0199] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 123: 7-chloro-4-{(3-cyclopentyloxy-4-methoxy)benzylamino]-6-nitroquinazoline

[0200] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Reference example 124: 7-chloro-4-[(4-methoxy-3-pivaloyloxy)benzylamino]-6-nitroquinazoline

[0201] Using the compound obtained in Reference example 4 as starting material, the . title compound was obtained according to the same method as Reference example 5.

Reference example 125: 7-chloro-4-{(4-hydroxy)benzylamino}-6-nitroquinazoline

[0202] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained

according to the same method as Reference example 5.

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Reference example 126: 7-chloro-4-[(4-cyano)benzylamino]-6-nitroquinazoline

[0203] Using the compound obtained in Reference example 4 as starting material, the title compound was obtained according to the same method as Reference example 5.

Example 1: 4-[2-(4-chlorophenyl)ethylamino]-6-nitro-7-(piperazin-1-yl)quinazoline (compound 1)

10 [0204] 7-Chloro-4-[2-(4-chlorophenyl)ethylamino]-6-nitroquinazoline (800 mg, 2.20 mmol) obtained in Reference example 5 was suspended in n-butanol (22 ml). To this suspension, anhydrous piperazine (569 mg, 6.60 mmol) and N, N-diisopropylethylamine (575 μl, 3.30 mmol) were added, and the mixture was stirred at 120 °C for 7 hours. After completion of the reaction, the solvent was distilled off under reduced pressure, the residue was added with water (40 ml), and the solution was stirred at room temperature for 1 hour. The suspension was filtered to give 735 mg (yield 81%) of the title compound as yellow orange crystal.

<sup>1</sup>H-NMR(DMSO-d<sub>6</sub>)  $\delta$ (ppm): 8.87(s,1H), 8.68-8.64(br.t,1H), 8.48(s,1H), 7.37-7.26(m,4H), 7.21(s,1H), 3.74 (dt,2H, J=6.3,5.9Hz), 3.07-3.02(m,5H), 2.97-2.92(m,6H)

Example 2: 4-[2-(4-chlorophenyl)ethylamino]-7-(homopiperazin-1-yl)-6-nitroquinazoline (compound 2)

[0205] 7-Chloro-4-[2-(4-chlorophenyl)ethylamino]-6-nitroquinazoline (100 mg, 0.275 mmol) obtained in Reference example 5 was suspended in n-butanol (6 ml). To this suspension, homopiperazine (83 mg, 0.825 mmol) and N,N-diisopropylethylamine (72  $\mu$ l, 0.413 mmol) were added, and the mixture was stirred at 120 °C for 16 hours. After completion of the reaction, the solvent was distilled off under reduced pressure, the residue was added with a mixed solution of dichloromethane and hexane, and the solution was stirred at room temperature for 30 minutes. The suspension was filtered to give 106 mg (yield 90%) of the title compound as yellow orange crystal.

 $^{1}$ H-NMR(DMSO-d<sub>6</sub>)  $^{6}$   $^{6}$  (ppm): 8.79(s,1H), 8.60-8.57(br.-t,1H), 8.41(s,1H), 7.37-7.26(m,4H), 7.14(s,1H), 3.76-3.69(m, 2H), 3.42-3.33(m,2H), 2.98-2.93(m,9H), 1.93-1.91(m,2H)

30 Example 3: 4-[2-(4-chlorophenyl)ethylamino]-7-(4-methylpiperazin-1-yl)-6-nitroquinazoline (compound 3)

[0206] 7-Chloro-4-[2-(4-chlorophenyl)ethylamino]-6-nitroquinazoline (100 mg, 0.275 mmol) obtained in Reference example 5 was suspended in n-butanol (6 ml). To this suspension, 1-methylpiperazine (92  $\mu$ l, 0.825 mmol) and N,N-diisopropylethylamine (144  $\mu$ l, 0.825 mmol) were added, and the mixture was stirred at 120 °C for 13 hours. After completion of the reaction, the solvent was distilled off under reduced pressure, the residue was added with a mixed solution of dichloromethane and hexane, and the solution was stirred at room temperature for 30 minutes. The suspension was filtered to give 73 mg (yield 62%) of the title compound as yellow orange crystal.

 $^{1}$ H-NMR(DMSO-d<sub>6</sub>)  $^{6}$ (ppm): 8.84(s,1H), 8.64-8.62(br.-t,1H), 8.47(s,1H), 7.36-7.62(m,4H), 7.20(s,1H), 3.72(dt,2H, J=7.0,5.9Hz), 3.08-3.05(m,4H), 2.94(t,2H,7.0Hz), 2.50-2.45(m,4H), 2.23(s,3H)

Example 4: 4-[2-(4-chlorophenyl)ethylamino]-7-(4-ethylpiperazin-1-yl)-6-nitroquinazoline (compound 4)

[0207] 7-Chloro-4-[2-(4-chlorophenyl)ethylamino]-6-nitroquinazoline (70 mg, 0.193 mmol) obtained in Reference example 5 was suspended in n-butanol (5 ml). To this suspension, 1-ethylpiperazine (123  $\mu$ l, 0.965 mmol) and N,N-diisopropylethylamine (202  $\mu$ l, 1.16 mmol) were added, and the mixture was stirred at 120 °C for 8 hours. After completion of the reaction, the solvent was distilled off under reduced pressure, the residue was added with water (10 ml), and the solution was stirred at room temperature for 30 minutes. The suspension was filtered to give 61 mg (yield 72%) of the title compound as yellow orange crystal.

<sup>1</sup>H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 8.65(s,1H), 8.10(s,1H), 7.40-7.28(m,5H), 5.74-5.72(bt.-t,1H), 3.85(dt,2H, J=6.8,6.2Hz), 3.20-3.18(m,4H), 3.00(t,2H,J=6.8Hz), 2.72-2.70(m,4H), 2.54(q,2H, J=7.1Hz), 1.17(t,3H,J=7.0Hz)

Example 5: 4-[2-(4-chlorophenyl)ethylamino]-7-[4-(2-hydroxyethyl)piperazin-1-yl)-6-nitroquinazoline (compound 5)

[0208] 7-Chloro-4-[2-(4-chlorophenyl)ethylamino]-6-nitroquinazoline (70 mg, 0.193 mmol) obtained in Reference example 5 was suspended in n-butanol (5 ml). To this suspension, 1-(2-hydroxyethyl)piperazine (330  $\mu$ l, 2.69 mmol) and N,N-diisopropylethylamine (337  $\mu$ l, 2.61 mmol) were added, and the mixture was stirred at 120 °C for 8 hours. After completion of the reaction, the solvent was distilled off under reduced pressure, the residue was added with water (10 ml), and the solution was stirred at room temperature for 30 minutes. The suspension was filtered to give 61 mg (yield

70%) of the title compound as yellow orange crystal.

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<sup>1</sup>H-NMR(DMSO-d<sub>6</sub>)  $\delta$ (ppm): 8.84(s,1H), 8.64-8.62(br.-t,1H), 8.47(s,1H), 7.36-7.26(m,4H), 7.19(s,1H), 4.44(t,1H, J=5.4Hz), 3.73(dt,2H, J=7.3,5.8Hz), 3.53(dt,2H,J=5.7,5.4Hz), 3.06-3.04(m,4H), 2.94(t,2H,7.3Hz), 2.47-2.43(m,6H)

5 Example 6: 4-[2-(4-chlorophenyl)ethylamino]-7-(4-formylpiperazin-1-yl)-6-nitroquinazoline (compound 6)

[0209] To formic acid (20 ml), anhydrous acetic acid (2.2 ml, 2.42 mmol) was added and stirred at room temperature for 20 minutes. Then, the compound 1 (200 mg, 0.484 mmol) obtained in Example 1 and N,N-diisopropylethylamine (211  $\mu$ l, 1.21 mmol) were added, and the mixture was stirred at 80 °C for 2 hours. After completion of the reaction, the solvent was distilled off under reduced pressure, and the residue was added with water (20 ml) and neutralized with 1N NaOH aqueous solution. The neutralized solution being distilled off under reduced pressure, the residue was added with methanol and water and stirred under ice-cooling for 30 minutes. The precipitated crystal was filtered off to give 196 mg (yield 92%) of the title compound as orange crystal.  $^1$ H-NMR(DMSO-d<sub>6</sub>)  $\delta$ (ppm): 8.91(s,1H), 8.72-8.68(br.-t, 1H), 8.49(s,1H), 8.08(s,1H), 7.36-7.27(m,5H), 3.74(dt,2H, J=6.3,5.9Hz), 3.52-3.51(m,4H), 3.13-2.92(m,6H)

Example 7: 7-(4-acetylpiperazin-1-yl)-4-[2-(4-chlorophenyl)ethylamino]-6-nitroquinazoline (compound 7)

[0210] The compound 1 (80 mg, 0.194 mmol) obtained in Example 1 was suspended in dichloromethane (3 ml). To this suspension, anhydrous acetic acid (28  $\mu$ l, 0.291 mmol) and pyridine(31  $\mu$ l, 0.388 mmol) were added, and the mixture was stirred at room temperature for 4 hours. After completion of the reaction, the solvent was distilled off under reduced pressure, the residue was added with water (15 ml), and the solution was stirred at room temperature for 30 minutes. The precipitated solid was filtered off to give 69 mg (yield 78%) of the title compound as yellow crystal. 

1H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 8.66(s,1H), 8.13(s,1H), 7.41-7.29(m,5H), 5.84-5.82(bt.-t,1H), 3.95-3.90(m,2H), 3.87-3.83(m, 2H), 3.72-3.68(m,2H), 3.20-3.07(m,6H), 2.20(s,3H)

Example 8: 7-(4-aminopiperidin-1-yi)-4-[2-(4-chlorophenyi)ethylamino]-6-nitroquinazoline (compound 8)

[0211] 7-Chloro-4-[2-(4-chlorophenyl)ethylamino]-6-nitroquinazoline (100 mg, 0.275 mmol) obtained in Reference example 5 was suspended in n-butanol (5 ml). To this suspension, tert-butoxy-N-(4-piperidyl)formamide (220 mg, 1.10 mmol) obtained in Reference example 48 and N,N-diisopropylethylamine (240  $\mu$ l, 1.38 mmol) were added, and the mixture was stirred at 120 °C for 5 hours. After completion of the reaction, the solvent was distilled off under reduced pressure, the residue was added with water (15 ml), and the solution was stirred at room temperature for 30 minutes. The suspension was filtered, and then the obtained solld was dissolved in 4N hydrochloric acid-dioxane and stirred for 2 hours. The reaction solution was distilled off under reduced pressure, and the residue was neutralized with NaOH water. The precipitated solid was subjected to filtration to give 54 mg (yield 46%) of the title compound as yellow crystal.  $^{1}$ H-NMR(DMSO-d<sub>6</sub>)  $^{5}$ 0(ppm): 8.81(s,1H), 8.61-8.59(br.-t,1H), 8.45(s,1H), 7.36-7.29(m,4H), 7.18(s,1H), 3.73(dt,2H, J=7.2,6.0Hz), 3.28-3.26(m,3H), 2.97-2.91(m,5H), 1.80-1.76 (m,3H), 1.37-1.33(m,2H)

Example 9: 7-(4-aminomethylpiperidin-1-yl)-4-[2-(4-chlorophenyl)ethylamino]-6-nitroquinazoline (compound 9)

[0212] 7-Chloro-4-[2-(4-chlorophenyl)ethylamino]-6-nitroquinazoline (100 mg, 0.275 mmol) obtained in Reference example 5 was suspended in n-butanol (5 ml). To this suspension, 4-(aminomethyl)piperidine (157 mg, 1.38 mmol) and N,N-diisopropylethylamine (240 µl, 1.38 mmol) were added, and the mixture was stirred at 120 °C for 6 hours. After completion of the reaction, the solvent was distilled off under reduced pressure, the residue was added with water (20 ml), and the solution was stirred at room temperature for 30 minutes. The suspension was filtered to give 81 mg (yield 67%) of the title compound as yellow orange crystal.

 $^{1}$ H-NMR(DMSO-d<sub>6</sub>)  $^{6}$ (ppm): 8.82(s,1H), 8.63-8.59(br.-t,1H), 8.45(s,1H), 7.36-7.29(m,4H), 7.18(s,1H), 3.73(dt,2H, J=7.2,5.7Hz), 3.28-3.26(m,2H), 2.94(t,2H,J=7.2Hz), 2.87-2.75(m,2H), 2.50-2.45(m,2H), 1.80-1.76 (m,2H), 1.59-1.15 (m,5H)

Example 10: 6-nitro-4-[2-(phenyl)ethylamino]-7-(piperazin-1-yl)quinazoline (compound 10)

[0213] Using the compound obtained in Reference example 6 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{55}$  1H-NMR(DMSO-d<sub>6</sub>) δ(ppm): 9.00(s,1H), 8.85-8.83(br.-t,1H), 8.51(s,1H), 7.33-7.18(m,6H), 3.76(dt,2H, J=7.2,6.0Hz), 3.19-3.15(m,5H), 2.99-2.92(m,6H)

Example 11: 7-(homopiperazin-1-yl)-6-nitro-4-[2-(phenyl)ethylamino]quinazoline (compound 11)

[0214] Using the compound obtained in Reference example 6 as starting material, the title compound was obtained according to the same method as Example 2.

 $^{5}$  1H-NMR(DMSO-d<sub>6</sub>) δ(ppm): 8.77(s,1H), 8.59-8.57(br.-t,1H), 8.41(s,1H), 7.35-7.28(m,5H), 7.16(s,1H), 3.74-3.67(m, 2H), 3.40-3.30(m,2H), 3.00-2.95(m,9H), 1.95-1.92(m,2H)

Example 12: 7-(4-methylpiperazin-1-yl)-6-nitro-4-[2-(phenyl)ethylamino]quinazoline (compound 12)

10 [0215] Using the compound obtained in Reference example 6 as starting material, the title compound was obtained according to the same method as Example 3.

<sup>1</sup>H-NMR(DMSO-d<sub>6</sub>)  $\delta$ (ppm): 8.95(s,1H), 8.87-8.85(br.-t,1H), 8.50(s,1H), 7.30-7.25(m,6H), 3.77(dt,2H,J=7.0,5.8Hz), 3.12-3.09(m,4H), 2.98-2.91(m,6H), 2.20(s,3H) Example 13: 7-(4-ethylpiperazin- 1-yl)-6-nitro-4-[2-(phenyl)ethylamino] quinazoline (compound 13)

[0216] Using the compound obtained in Reference example 6 as starting material, the title compound was obtained according to the same method as Example 4.

 $^{1}$ H-NMR(CDCl<sub>3</sub>)  $^{3}$ (ppm): 8.63(s,1H), 8.06(s,1H), 7.37-7.26(m,6H), 5.70-5.69(br.-t,1H), 3.93(dt,2H,J=6.7,6.3Hz), 3.18-3.16 (m,4H), 3.03(t,2H,J=6.7Hz), 2.65-2.62(m,4H), 2.50(q,2H, J=7.0Hz), 1.13(t,3H,J=7.0Hz)

20 Example 14: 7-(4-formylpiperazin-1-yl)-6-nitro-4-[2-(phenyl)ethylamino]quinazoline (compound 14)

[0217] Using the compound obtained in Reference example 6 as starting material, the title compound was obtained according to the same method as Example 6.

<sup>1</sup>H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.67(s,1H), 8.17(s,1H), 8.12(s,1H) 7.65-7.24(m,6H), 5.82-5.80(br.-t,1H), 3.99-3.91(m,2H), 3.79-3.75(m,2H), 3.61-3.57 (m,2H), 3.18-3.02(m,6H)

Example 15: 7-(4-acetylpiperazin-1-yl)-6-nitro-4-[2-(phenyl)ethylamino]quinazoline (compound 15)

[0218] Using the compound obtained in Reference example 6 as starting material, the title compound was obtained according to the same method as Example 7.

 $^{1}$ H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 8.66(s,1H), 8.16(s,1H), 7.38-7.24(m,6H), 5.83-5.81(br.-t,1H), 3.98-3.91(m,2H), 3.84-3.80 (m, 2H), 3.69-3.65(m,2H), 3.17-3.02(m,6H), 2.15(s,3H)

Example 16: 7-(4-aminopiperidin-1-yl)-6-nitro-4-[2-(phenyl)ethylamino]quinazoline (compound 16)

[0219] Using the compound obtained in Reference example 6 as starting material, the title compound was obtained according to the same method as Example 8.

<sup>1</sup>H-NMR(DMSO-d<sub>6</sub>)  $\delta$ (ppm): 8.82(s,1H), 8.59-8.57(br.-t,1H), 8.40(s,1H), 7.37-7.30(m,5H), 7.20(s,1H), 3.73-3.70(m, 2H),

40 3.30-3.27(m,3H), 2.98-2.94(m,5H), 1.85-1.80(m,3H), 1.35-1.32 (m,2H)

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Example 17: 7-(4-aminomethy/piperidin-1-yl)-6-nitro-4-[2-(phenyl)ethylamino]quinazoline (compound 17)

[0220] Using the compound obtained in Reference example 6 as starting material, the title compound was obtained according to the same method as Example 9.

 $^{1}$ H-NMR(DMSO-d<sub>6</sub>) δ(ppm): 8.79(s,1H), 8.59-8.57(br.+,1H) 8.33(s,1H), 7.35-7.28(m,5H), 7.20(s,1H), 3.75 (dt,2H, J=7.2,5.7Hz), 3.25-3.22(m,2H), 2.98(t,2H,J=7.2Hz), 2.84-2.80(m,2H), 2.52-2.47(m,2H), 1.78-1.74(m,2H), 1.60-1.55 (m,5H)

50 Example 18: 4-(benzylamino)-6-nitro-7-(piperazin-1-yl)quinazoline (compound 18)

[0221] Using the compound obtained in Reference example 7 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}$ H-NMR(CDCl<sub>3</sub>) δ(ppm): 9.05-8.99(m,2H), 8.46(s,1H), 7.39-7.24(m,6H), 4.79(d,2H,J=5.4Hz), 3.14-3.08(m,8H), 2.69-2.63(m,1H)

Example 19: 4-(benzylamino)-7-(homopiperazin-1-yl)-6-nitroquinazoline (compound 19)

[0222] Using the compound obtained in Reference example 7 as starting material, the title compound was obtained according to the same method as Example 2.

<sup>5</sup> <sup>1</sup>H-NMR(DMSO-d<sub>e</sub>) δ(ppm): 8.57(s,1H), 8.10(s,1H), 7.41-7.28 (m,6H), 5.77-5.75(br.-t,1H), 4.78(d,2H,J=5.5Hz), 3.55-3.49 (m,2H), 3.39-3.35(m,3H), 3.10-3.05(m,2H), 3.00-2.95(m,2H), 2.01-1.93(m,2H)

Example 20: 4-(benzylamino)-7-(4-methylpiperazin-1-yl)-6-nitroquinazoline (compound 20)

[0223] Using the compound obtained in Reference example 7 as starting material, the title compound was obtained according to the same method as Example 3.
¹H-NMR(DMSO-d<sub>6</sub>) δ(ppm): 9.00-8.98(br.-t,1H), 8.97(s,1H), 8.47(s,1H), 7.40-7.28(m,6H), 4.80(d,2H,J=5.6Hz),

'H-NMH(DMSO-a<sub>6</sub>) o(ppm): 9.00-8.98(br.-t,1H), 8.97(s,1H), 8.47(s,1H), 7.40-7.28(m,6H), 4.80(d,2H,J=5.6Hz), 3.15-3.12(m,4H), 3.00-2.96(m,4H), 2.24(s,3H)

15 Example 21: 4-(benzylamino)-7-[4-(2-hydroxyethyl) piperazin-1-yl]-6-nitroquinazoline (compound 21)

[0224] Using the compound obtained in Reference example 7 as starting material, the title compound was obtained according to the same method as Example 5.

<sup>1</sup>H-NMR(DMSO-d<sub>6</sub>)  $\delta$ (ppm): 9.02-8.99(m,2H), 8.50(s,1H), 7.39-7.28(m,6H), 4.78(d,2H,J=5.4Hz), 4.50(br.-t,1H), 3.50-3.47 (m,2H), 3.08-3.05(m,4H), 2.51-2.44(m,6H)

Example 22: 4-(benzylamino)-7-(4-formylpiperazin-1-yl)-6-nitroquinazoline (compound 22)

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[0225] Using the compound obtained in Reference example 7 as starting material, the title compound was obtained according to the same method as Example 6.

 $^{1}$ H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 8.98-8.96(br.-t,1H), 8.93(s,1H), 8.37(s,1H), 7.46-7.37(m,7H), 4.68(d,2H,J=5.5Hz), 3.15-3.11 (m,4H), 3.04-3.00(m,4H)

Example 23: 7-(4-acetylpiperazin-1-yl)-4-(benzylamino)-6-nitroguinazoline (compound 23)

[0226] Using the compound obtained in Reference example 7 as starting material, the title compound was obtained according to the same method as Example 7.

 $^{1}$ H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 8.95-8.93(br.-t,1H), 8.91(s,1H), 8.50(s,1H), 7.38-7.29(m,6H), 4.74(d,2H,J=5.6Hz), 3.17-3.12 (m,4H), 3.06-3.02(m,4H), 2.23(s,3H)

Example 24: 7-(4-aminopiperidin-1-yl)-4-(benzylamino)-6-nitroquinazoline (compound 24)

[0227] Using the compound obtained in Reference example 7 as starting material, the title compound was obtained according to the same method as Example 8.

40 ¹H-NMR(DMSO-d<sub>e</sub>) δ(ppm): 9.02-8.97(m,2H), 8.51(s,1H), 7.42-7.31(m,6H), 4.74(d,2H,J=5.4Hz), 3.30-3.27(m,3H), 2.95-2.90 (m,3H), 1.82-1.78(m,3H), 1.32-1.28(m,2H)

Example 25: 4-(4-fluorobenzylamino)-6-nitro-7-(piperazin-1-yl)quinazoline (compound 25)

45 [0228] Using the compound obtained in Reference example 8 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}$ H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 8.93(s,1H), 8.82(br.-t,1H), 8.51(s,1H), 7.42-7.37(m,2H), 7.22(s,1H), 7.05-6.98(m,2H), 4.78 (d,2H, J=5.1Hz), 3.09-3.07(m,4H), 3.04-3.02(m,5H)

50 Example 26: 4-(4-fluorobenzylamino)-7-(homopiperazin-1-yl)-6-nitroquinazoline (compound 26)

[0229] Using the compound obtained in Reference example 8 as starting material, the title compound was obtained according to the same method as Example 2.

<sup>1</sup>H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 8.90(s,1H), 8.79-8.77(br.-t,1H), 8.49(s,1H), 7.37-7.32(m,4H), 7.29(s,1H), 4.76(d,2H, 55 J=5.3Hz), 3.55-3.51(m,2H), 3.47-3.44(m,3H), 3.15-3.09(m,2H), 3.01-2.94(m,2H), 2.08-2.00(m,2H)

Example 27: 4-(4-fluorobenzylamino)-7-(4-methylpiperazin- 1-yl)-6-nitroquinazoline (compound 27)

[0230] Using the compound obtained in Reference example 8 as starting material, the title compound was obtained according to the same method as Example 3.

 $^{5}$  <sup>1</sup>H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.96(s,1H), 8.88-8.86(br.-t,1H), 8.47(s,1H), 7.43-7.39(m,3H), 7.08-7.03(m,2H), 4.80(d,2H, J=5.3Hz), 3.12-3.10(m,4H), 3.07-3.05(m,4H), 2.26(s,3H)

Example 28: 7-(4-ethylpiperazin-1-yl)-4-(4-fluorobenzylamino)-6-nitroquinazoline (compound 28)

10 [0231] Using the compound obtained in Reference example 8 as starting material, the title compound was obtained according to the same method as Example 4.

<sup>1</sup>H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 8.92(s,1H), 8.80-8.78(br.-t,1H), 8.45(s,1H), 7.40-7.37(m,3H), 7.10-7.05(m,2H), 4.81(d,2H, J=5.4Hz), 3.19-3.16(m,4H), 3.06(t,2H,J=6.8Hz), 2.71-2.68(m,4H), 1.18(t,3H,J=6.8Hz)

15 Example 29: 4-(4-fluorobenzylamino)-7-(4-formylpiperazin-1-yl)-6-nitroquinazoline (compound 29)

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[0232] Using the compound obtained in Reference example 8 as starting material, the title compound was obtained according to the same method as Example 6.

<sup>1</sup>H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.95(s,1H), 8.82-8.79(br.-t,1H), 8.50(s,1H), 7.40-7.36(m,3H), 7.23(s,1H), 7.08-7.04(m,2H), 4.74(d,2H, J=5.5Hz), 3.15-3.12(m,4H), 3.09-3.07(m,4H)

Example 30: 7-(4-aminopiperidin-1-yl)-4-(4-fluorobenzylamino)-6-nitroquinazoline (compound 30)

[0233] Using the compound obtained in Reference example 8 as starting material, the title compound was obtained according to the same method as Example 8.

 $^{1}$ H-NMR(DMSO-d<sub>6</sub>)  $^{8}$   $^{6}$  (ppm): 9.00-8.98(m,2H), 8.49(s,1H), 7.40-7.28(m,4H), 7.15 (s,1H), 4.76(d,2H, J=5.2Hz), 3.33-3.29(m,3H), 2.97-2.92(m,3H), 1.84-1.80(m,3H), 1.34-1.30 (m,2H)

Example 31: 4-[3,4-(methylenedioxy)benzylamino]-6-nitro-7-(piperazin-1-yl)quinazoline (compound 31)

[0234] Using the compound obtained in Reference example 9 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}\text{H-NMR}(\text{DMSO-d}_{6}) \ \delta(\text{ppm}); \ 8.96-8.94(\text{m},2\text{H}), \ 8.46(\text{s},1\text{H}), \ 7.22 \ (\text{s},1\text{H}), \ 6.91-6.77(\text{m},3\text{H}), \ 5.95(\text{s},2\text{H}), \ 4.68(\text{d},2\text{H}, \ \text{J}=5.4\text{Hz}), \ 3.08-3.06(\text{m},4\text{H}), \ 3.03-3.00(\text{m},5\text{H})$ 

Example 32: 7-(homopiperazin-1-yl)-4-[3,4-(methylenedioxy)benzylamino]-6-nitroquinazoline (compound 32)

[0235] Using the compound obtained in Reference example 9 as starting material, the title compound was obtained according to the same method as Example 2.

<sup>1</sup>H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.59(s,1H), 8.08(s,1H), 7.29(s,1H), 6.88-6.79(m,3H), 5.98(s,2H), 5.75-5.73(br.-t,1H), 4.74(d, 2H, J=5.4Hz), 3.54-3.50(m,2H), 3.41-3.37(m,2H), 3.10-3.06(m,3H), 2.97-2.93(m,2H), 1.98-1.90(m,2H)

Example 33: 7-(4-methylpiperazin-1-yl)-4-[3,4-(methylenedioxy)benzylamino]-6-nitroquinazoline (compound 33)

45 [0236] Using the compound obtained in Reference example 9 as starting material, the title compound was obtained according to the same method as Example 3.

 $^{1}$ H-NMR(DMSO-d<sub>6</sub>)  $^{5}$   $^{6}$  (ppm): 9.04-9.02(br.-t,1H), 9.00(s,1H), 8.47(s,1H), 7.24(s,1H), 6.94(s,1H), 6.88-6.85(m,2H), 5.97 (s,2H), 4.65(d,2H, J=5.9Hz), 3.11-3.06(m,4H), 2.65-2.59(m,4H), 2.32(s,3H)

Example 34: 7-(4-ethylpiperazin-1-yl)-4-[3,4-(methylenedioxy)benzylamino]-6-nitroquinazoline (compound 34)

[0237] Using the compound obtained in Reference example 9 as starting material, the title compound was obtained according to the same method as Example 4.

<sup>1</sup>H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.63(s,1H), 8.12(s,1H), 7.31(s,1H), 6.90-6.87(m,3H), 6.01(s,2H), 5.81-5.79(br.-t,1H), 4.77(d, 2H, J=5.5Hz), 3.22-3.19(m,4H), 3.10(t,2H,J=7.0Hz), 2.83-2.79 (m,4H), 1.20(t,3H,J=7.0Hz)

Example 35: 7-(4-formylpiperazin-1-yl)-4-[3,4-(methylenedioxy)benzylamino]-6-nitroquinazoline (compound 35)

[0238] Using the compound obtained in Reference example 9 as starting material, the title compound was obtained according to the same method as Example 6.

<sup>1</sup>H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.60(s,1H), 8.15(s,1H), 7.31-7.29(m,2H), 6.88-6.85(m,3H), 6.10(s,2H), 5.79-5.77(br.-t,1H), 4.75(d,2H, J=5.3Hz), 3.23-3.20(m,4H), 2.87-2.83(m,4H)

Example 36: 7-(4-aminopiperidin-1-yl)-4-{3,4-(methylenedioxy)benzylamino]-6-nitroquinazoline (compound 36)

- [0239] Using the compound obtained in Reference example 9 as starting material, the title compound was obtained according to the same method as Example 8.
   <sup>1</sup>H-NMR(DMSO-d<sub>6</sub>) δ(ppm): 8.98-8.95(m,2H), 8.47(s,1H), 7.25 (s,1H), 6.89-6.78(m,3H), 5.97(s,2H), 4.70(d,2H, J=5.4Hz), 3.28-3.25(m,3H), 2.96-2.92(m,3H), 1.82-1.77(m,3H), 1.32-1.27(m,2H)
- Example 37: 4-[2-(4-fluorophenyl)ethylamino]-6-nitro-7-(piperazin-1-yl)quinazoline (compound 37)

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[0240] Using the compound obtained in Reference example 34 as starting material, the title compound was obtained according to the same method as Example 1.

<sup>1</sup>H-NMR(DMSO-d<sub>6</sub>) δ(ppm): 9.00(s,1H), 8.81-8.79(br.-t,1H), 8.50(s,1H), 7.32(s,1H), 7.30-7.27(m,2H), 7.14-7.08(m, 2H) 3.74(dt,2H, J=7.2,5.8Hz), 3.21-3.19(m,5H), 2.95-2.90(m,6H)

Example 38: 4-[2-(4-fluorophenyl)ethylamino]-7-(homopiperazin-1-yl)-6-nitroquinazoline (compound 38)

[0241] Using the compound obtained in Reference example 34 as starting material, the title compound was obtained according to the same method as Example 2.

 $^{1}$ H-NMR(DMSO-d<sub>6</sub>)  $^{8}$   $^{9}$ 

Example 39: 4-[2-(4-fluorophenyl)ethylamino]-7-(4-methylpiperazin-1-yl)-6-nitroquinazoline (compound 39)

[0242] Using the compound obtained in Reference example 34 as starting material, the title compound was obtained according to the same method as Example 3.

 $^{1}$ H-NMR(DMSO-d<sub>6</sub>)  $\delta$ (ppm): 8.97(s,1H), 8.83-8.80(br.-t,1H), 8.56(s,1H), 7.34(s,1H), 7.33-7.30(m,2H), 7.16-7.13(m, 2H) 3.77(dt,2H, J=7.0,5.7Hz), 3.17-3.14(m,4H), 3.02-2.96(m,6H), 2.21(s,3H)

Example 40: 4-[2-(4-fluorophenyl)ethylamino]-7-(4-formylpiperazin-1-yl)-6-nitroquinazoline (compound 40)

[0243] Using the compound obtained in Reference example 34 as starting material, the title compound was obtained according to the same method as Example 6.

<sup>1</sup>H-NMR(DMSO-d<sub>6</sub>) δ(ppm): 9.01(s,1H), 8.83-8.81(br.-t,1H), 8.47(s,1H), 7.35(s,1H), 7.31-7.28(m,3H), 7.15-7.09(m, 2H) 3.76(dt,2H, J=7.3,5.5Hz), 3.19-3.15(m,4H), 2.97-2.92(m,6H)

Example 41: 7-(4-aminopiperidin-1-yl)-4-[2-(4-fluorophenyl)ethylamino]-6-nitroquinazoline (compound 41)

Using the compound obtained in Reference example 34 as starting material, the title compound was obtained according to the same method as Example 8.

<sup>1</sup>H-NMR(DMSO-d<sub>6</sub>)  $\delta$ (ppm): 8.97(s,1H), 8.77-8.75(br.-t,1H), 8.49(s,1H), 7.33(s,1H), 7.33-7.30(m,2H), 7.17-7.14(m, 2H) 3.78(dt,2H, J=7.0,5.5Hz), 3.31-3.29(m,3H), 2.95-2.91(m,5H), 1.84-1.80(m,3H), 1.34-1.30(m,2H)

50 Example 42: 6-nitro-7-(piperazin-1-yl)-4-[2-(2-thienyl)ethylamino]quinazoline (compound 42)

[0245] Using the compound obtained in Reference example 16 as starting material, the title compound was obtained according to the same method as Example 1.

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<sup>1</sup>H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.63(s,1H), 8.12(s,1H), 7.32(s,1H), 7.21(d,1H,J=5.4Hz), 6.99(dd,1H,J=5.4,3.0Hz), 6.89(d, 1H, J=3.0Hz), 5.88-5.86(br.-t,1H), 3.96(dt,2H, J=6.3,5.8Hz), 3.26(d,2H,J=6.3Hz), 3.12-3.10(m,4H), 3.07-3.04(m,5H)

Example 43: 7-(homopiperazin-1-yl)-6-nitro-4-[2-(2-thienyl)ethylamino]quinazoline (compound 43)

[0246] Using the compound obtained in Reference example 16 as starting material, the title compound was obtained according to the same method as Example 2.

 $^{1}$ H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.67(s,1H), 8.14(s,1H), 7.28(s,1H), 7.19(d,1H,J=5.4Hz), 7.02(dd,1H,J=5.4,3.2Hz), 6.90 (d, 1H,J=3.0Hz), 5.86-5.84(br.-t,1H), 3.92(dt,2H,J=6.2,5.6Hz), 3.50-3.46(m,2H), 3.43-3.39(m,3H), 3.23(d,2H,J=6.2Hz), 3.15-3.12(m,2H), 3.04-3.00(m,2H), 2.05-2.02(m,2H)

Example 44: 7-(4-methylpiperazin-1-yl)-6-nitro-4-[2-(2-thienyl)ethylamino]quinazoline (compound 44)

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[0247] Using the compound obtained in Reference example 16 as starting material, the title compound was obtained according to the same method as Example 3.

 $^{1}$ H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 8.69(s,1H), 8.13(s,1H), 7.32(s,1H), 7.20(d,1H,J=5.3Hz), 7.00(dd,1H,J=5.3,3.0Hz), 6.90(d, 1H, J=3.0Hz), 5.93-5.91(br.-t,1H), 3.95(dt,2H, J=6.5,5.5Hz), 3.25(d,2H,J=6.5Hz), 3.13-3.10(m,4H), 3.08-3.05(m,4H), 2.40(s,3H)

Example 45: 7-(4-ethylpiperazin-1-yl)-6-nitro-4-[2-(2-thienyl)ethylamino]quinazoline (compound 45)

[0248] Using the compound obtained in Reference example 16 as starting material, the title compound was obtained according to the same method as Example 4.

 $^{1}$ H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.72(s,1H), 8.15(s,1H), 7.28(s,1H), 7.18(d,1H,J=5.4Hz), 7.05(dd,1H,J=5.4,3.2Hz), 6.94(d, 1H, J=3.2Hz), 5.96-5.94(br.-t,1H), 3.92-3.89(m,2H), 3.31-3.29 (m,2H), 3.15-3.12(m,4H), 3.04-3.01(m,4H), 2.67(q,2H, J=7.1Hz), 1.10(t,3H,J=7.1 Hz)

25 Example 46: 7-(4-formylpiperazin-1-yl)-6-nitro-4-[2-(2-thienyl)ethylamino]quinazoline (compound 46)

[0249] Using the compound obtained in Reference example 16 as starting material, the title compound was obtained according to the same method as Example 6.

<sup>1</sup>H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.70(s,1H), 8.15(s,1H), 7.35(s,1H), 7.18-7.20(m,2H), 7.10-6.98(m,2H), 5.94-5.92(br.-t,1H), 3.97(dt,2H,J=6.5,5.5Hz), 3.26(d,2H,J=6.5Hz), 3.14-3.12(m,4H), 3.07-3.03(m,4H)

Example 47: 7-(4-aminopiperidin-1-yl)-6-nitro-4-[2-(2-thienyl)ethylamino]quinazoline (compound 47)

[0250] Using the compound obtained in Reference example 16 as starting material, the title compound was obtained according to the same method as Example 8.

 $^{1}\text{H-NMR}(\text{CDCl}_3) \ \delta(\text{ppm}); \ 8.68(5,1\text{H}), \ 8.16(\text{s},1\text{H}), \ 7.31(\text{s},1\text{H}), \ 7.18(\text{d},1\text{H},\text{J}=5.5\text{Hz}); \\ 7.05(\text{dd},1\text{H},\text{J}=5.5,3.0\text{Hz}), \ 6.93(\text{d},1\text{H}, \ \text{J}=3.0\text{Hz}), \ 5.90-5.88(\text{br.-t},1\text{H}), \ 3.94(\text{dt},2\text{H}, \ \text{J}=6.3,5.3\text{Hz}), \ 3.35-3.30(\text{m},3\text{H}), \ 3.27(\text{d},2\text{H},\text{J}=6.3\text{Hz}), \ 2.98-2.95(\text{m},3\text{H}), \ 1.84-1.80(\text{m},3\text{H}), \ 1.35-1.31(\text{m},2\text{H}) \\ \end{cases}$ 

Example 48: 6-nitro-7-(piperazin-1-yl)-4-[(2-thienyl)methylamino]quinazoline (compound 48)

[0251] Using the compound obtained in Reference example 15 as starting material, the title compound was obtained according to the same method as Example 1.

<sup>1</sup>H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.68(s,1H), 8.18(s,1H), 7.32(s,1H), 7.20(d,1H,J=5.5Hz), 7.07(dd,1H,J=5.5,3.4Hz), 6.91(d, 1H, J=3.4Hz), 5.90-5.88(br.-t, 1H), 4.92(d,2H,J=5.3Hz), 3.15-3.12(m,5H), 3.09-3.06(m,4H)

Example 49: 7-(homopiperazin-1-yl)-6-nitro-4-[(2-thienyl)methylamino]quinazoline (compound 49)

[0252] Using the compound obtained in Reference example 15 as starting material, the title compound was obtained according to the same method as Example 2.

 $^{1}$ H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 8.71(s,1H), 8.14(s,1H), 7.29(s,1H), 7.22(d,1H,J=5.4Hz), 7.10(dd,1H,J=5.4,3.2Hz), 6.85(d, 1H, J=3.2Hz), 5.87-5.85(br.-t,1H), 4.88(d,2H,J=5.5Hz), 3.60-3.56(m,2H), 3.52-3.48(m,3H), 3.18-3.14(m,2H), 3.06-3.02 (m,2H), 2.00-1.96(m,2H)

Example 50: 7-(4-methylpiperazin-1-yl)-6-nitro-4-[(2-thienyl)methylamino]quinazoline (compound 50)

[0253] Using the compound obtained in Reference example 15 as starting material, the title compound was obtained according to the same method as Example 3.

 $^{1}$ H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 8.66(s,1H), 8.19(s,1H), 7.35(s,1H), 7.18(d,1H,J=5.4Hz), 7.10(dd,1H,J=5.4,3.2Hz), 6.90(d, 1H, J=3.2Hz), 5.80-5.78(br.-t,1H), 4.94(d,2H,J=5.7Hz), 3.21-3.18(m,4H), 3.08-3.05 (m,4H), 2.41(s,3H)

Example 51: 4-[(2-furyl)methylamino]-6-nitro-7-(piperazin-1-yl)quinazoline (compound 51)

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[0254] Using the compound obtained in Reference example 17 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}$ H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 8.66(s,1H), 8.22(s,1H), 7.43(s,1H), 7.33(s,1H), 6.38-6.36(m,2H), 5.93-5.91(br.-t,1H), 4.86 (d, 2H,J=5.1Hz), 3.13-3.11(m,4H), 3.07-3.05 (m,5H)

Example 52: 4-[(2-furyl)methylamino]-7-(homopiperazin-1-yl)-6-nitroquinazoline (compound 52)

[0255] Using the compound obtained in Reference example 17 as starting material, the title compound was obtained according to the same method as Example 2.

<sup>1</sup>H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.68(s,1H), 8.20(s,1H), 7.44(s,1H), 7.31(s,1H), 6.36-6.33(m,2H), 5.96-5.94(br.-t,1H), 4.90 (d, 2H,J=5.3Hz), 3.68-3.65(m,2H), 3.62-3.57(m,2H), 3.24-3.20(m,3H), 3.12-3.07 (m,2H), 2.10-2.06(m,2H)

Example 53: 4-[(2-furyl)methylamino]-7-(4-methylplperazin-1-yl)-6-nitroquinazoline (compound 53)

20 [0256] Using the compound obtained in Reference example 17 as starting material, the title compound was obtained according to the same method as Example 3.

 $^{1}\text{H-NMR(CDCl}_{3})\,\delta(\text{ppm}); 8.70(\text{s},1\text{H}), \, 8.25(\text{s},1\text{H}), \, 7.47(\text{s},1\text{H}), \, 7.30(\text{s},1\text{H}), \, 6.41\text{-}6.38(\text{m},2\text{H}), \, 5.96\text{-}5.93(\text{br.-t},1\text{H}), \, 4.90 \, (\text{d},2\text{H},J=5.5\text{Hz}), \, 3.15\text{-}3.12(\text{m},4\text{H}), \, 3.07\text{-}3.03(\text{m},4\text{H}), \, 2.37(\text{s},3\text{H})$ 

25 Example 54: 6-nitro-4-[3-(phenyl)propylamino]-7-(piperazin-1-yl)quinazoline (compound 54)

[0257] Using the compound obtained in Reference example 10 as starting material, the title compound was obtained according to the same method as Example 1.

<sup>1</sup>H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.58(s,1H), 7.79(s,1H), 7.34-7.19(m,6H), 5.49-5.47(br.-t,1H), 3.73(dt,2H,J=6.2,6.0Hz), 3.11-3.09 (m,4H), 3.06-3.02(m,5H), 2.81(t,2H,J=7.4Hz), 2.11 (tt,2H, J=7.4,6.0Hz)

Example 55: 6-nitro-7-(piperazin-1-yl)-4-[(2-pyridyl)methylamino]quinazoline (compound 55)

[0258] Using the compound obtained in Reference example 11 as starting material, the title compound was obtained according to the same method as Example 1.

<sup>1</sup>H-NMR(DMSO-d<sub>6</sub>)  $\delta$ (ppm): 8.68-8.65(m,2H), 8.65-8.62(br.-t,1H), 8.55(s,1H), 8.20(s,1H), 7.53-7.49(m,2H), 7.30(s, 1H), 5.08(d,2H,J=5.5Hz), 3.10-3.06(m,5H), 2.99-2.96(m,4H)

Example 56: 6-nitro-7-(piperazin-1-yl)-4-[2-(2-pyridyl)ethylamino]quinazoline (compound 56)

[0259] Using the compound obtained in Reference example 12 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}$ H-NMR(DMSO-d<sub>6</sub>)  $^{6}$   $^{6}$  (ppm): 8.93(s,1H), 8.805-8.76(br.-t,1H), 8.52-8.49(m,2H), 7.73-7.67(m,1H), 7.31-7.20(m,3H), 3.89(dt,2H,J=7.0,5.7Hz), 3.16-3.89(m,11H)

Example 57: 6-nitro-7-(piperazin-1-yl)-4-[2-(3-pyridyl)ethylamino]quinazoline (compound 57)

[0260] Using the compound obtained in Reference example 13 as starting material, the title compound was obtained according to the same method as Example 1.

<sup>1</sup>H-NMR(DMSO-d<sub>6</sub>) δ(ppm): 8.86(s,1H), 8.69-8.67(br.-t,1H), 8.46-8.40(m,3H), 7.69-7.66(m,1H), 7.33-7.29(m,1H), 7.18 (s,1H), 3.77(dt,2H,J=7.1,5.9Hz), 3.03-2.95(m,6H), 2.87-2.83(m,5H)

Example 58: 6-nitro-7-(piperazin-1-yl)-4-[2-(4-pyridyl)ethylamino]quinazoline (compound 58)

[0261] Using the compound obtained in Reference example 14 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}$ H-NMR(DMSO-d<sub>6</sub>)  $\delta$ (ppm): 8.81(s,1H), 8.65-8.61(br.-t,1H), 8.47-8.45(m,3H), 7.29-7.27(m,1H), 7.17(s,1H), 3.79(dt, 2H, J=7.1,5.7Hz), 3.00-2.96(m,6H), 2.82-2.79(m,5H)

Example 59: 4-[(1-naphthyl)methylamino]-6-nitro-7-(piperazin-1-yl)quinazoline (compound 59)

[0262] Using the compound obtained in Reference example 18 as starting material, the title compound was obtained according to the same method as Example 1.

<sup>1</sup>H-NMR(DMSO-d<sub>6</sub>) δ(ppm): 9.11-9.09(br.-t,1H), 9.03(s,1H), 8.51(s,1H), 8.16-8.13(m,1H), 7.99-7.96(m,1H), 7.89-7.87 (m,2H), 7.58-7.47(m,4H), 5.23(d,2H,J=4.9Hz), 3.00-3.03 (m,5H), 2.98-2.95(m,4H)

Example 60: 4-(4-chlorobenzylamino)-6-nitro-7-(piperazin-1-yl)quinazoline (compound 60)

10 [0263] Using the compound obtained in Reference example 19 as starting material, the title compound was obtained according to the same method as Example 1.

<sup>1</sup>H-NMR(DMSO-d<sub>6</sub>)  $\delta$ (ppm): 9.13-9.10(br.-t,1H), 8.95(s,1H), 8.46(s,1H), 7.38(m,4H), 7.24(s,1H), 4.74(d,2H,J=5.7Hz), 3.08-3.06(m,4H), 2.95-2.93(m,4H), 2.50(br.-s,1H)

Example 61: 4-(2-fluorobenzylamino)-6-nitro-7-(piperazin-1-yl)quinazoline (compound 61)

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[0264] Using the compound obtained in Reference example 20 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}$ H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 8.90(s,1H), 8.84-8.82(br.-t,1H), 8.47(s,1H), 7.40-7.36(m,3H), 7.06-7.03(m,2H), 4.80(d,2H, J=5.2Hz), 3.10-3.05(m,5H), 3.02-3.00(m,4H)

Example 62: 4-(3-fluorobenzylamino)-6-nitro-7-(piperazin-1-yl)quinazoline (compound 62)

[0265] Using the compound obtained in Reference example 21 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}$ H-NMR(CDCl<sub>3</sub>) 6(ppm): 8.92(s,1H), 8.82-8.80(br.-t,1H), 8.50(s,1H), 7.39-7.35(m,3H), 7.10-7.07(m,2H), 4.84(d,2H, J=5.2Hz), 3.11-3.07(m,5H), 3.04-3.00(m,4H)

Example 63: 6-nitro-7-(piperazin-1-yl)-4-[4-(1,1,1-trifluoiomethyl)benzylamino]quinazoline (compound 63)

[0266] Using the compound obtained in Reference example 22 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}\text{H-NMR}(\text{DMSO-d}_{6}) \ \delta(\text{ppm}); \ 9.08-9.06(\text{br.-t,1H}), \ 8.91(\text{s,1H}), \ 8.43(\text{s,1H}), \ 7.63-7.55(\text{m,4H}), \ 7.19(\text{s,1H}), \ 4.85(\text{d,2H}, \text{J=5.4Hz}), \ 3.04-3.02(\text{m,4H}), \ 2.92-2.88(\text{m,5H})$ 

Example 64: 4-(4-methylbenzylamino)-6-nitro-7-(piperazin-1-yl)quinazoline (compound 64)

[0267] Using the compound obtained in Reference example 23 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}$ H-NMR(DMSO-d<sub>6</sub>) δ(ppm): 9.02-8.99(m,2H), 8.46(s,1H), 7.27-7.25(m,3H), 7.14-7.11(m,2H), 4.74(d,2H, J=5.9Hz), 3.12-3.10 (m,4H), 3.04-3.01(m,5H), 2.30(s,3H)

Example 65: 4-(2-methoxylbenzylamino)-6-nitro-7-(piperazin-1-yl)quinazoline (compound 65)

45 [0268] Using the compound obtained in Reference example 24 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}\text{H-NMR}(\text{DMSO-d}_{6}) \ \delta(\text{ppm}): \ 8.97(\text{s},1\text{H}), \ 8.73-8.71(\text{br.-t},1\text{H}), \ 8.41(\text{s},1\text{H}), \ 7.25-7.17(\text{m},3\text{H}), \ 6.94-6.80(\text{m},2\text{H}), \ 4.74(\text{d},2\text{H}), \ 2.94-2.91(\text{m},5\text{H}), \ 2.94-2.91(\text{$ 

50 Example 66: 4-(3-methoxylbenzylamino)-6-nitro-7-(piperazin-1-yl)quinazoline (compound 66)

[0269] Using the compound obtained in Reference example 25 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}$ H-NMR(DMSO-d<sub>6</sub>) δ(ppm): 9.04(t,1H,J=5.4Hz), 8.98(s,1H), 8.46(s,1H), 7.25-7.23(m,2H), 6.95-6.93(m,2H), 6.82-6.79 (m,1H), 4.75(d,2H, J=5.4Hz), 3.75(s,3H), 3.14-3.12(m,4H), 3.04-3.01(m,5H)

Example 67: 4-(4-methoxylbenzylamino)-6-nitro-7-(piperazin-1-yl)quinazoline (compound 67)

[0270] Using the compound obtained in Reference example 26 as starting material, the title compound was obtained according to the same method as Example 1.

<sup>1</sup>H-NMR(DMSO-d<sub>6</sub>) δ(ppm): 9.05-9.03(br.-t,1H), 8.96(s,1H), 8.47(s,1H), 7.31-7.28(m,2H), 7.23(s,1H), 6.90-6.87(m, 2H), 4.68(d,2H, J=5.4Hz), 3.72(s,3H), 3.09-3.07(m,4H), 2.97-2.95(m,4H), 2.43(br.-s,1H)

Example 68: 4-(3,4-dimethoxylbenzylamino)-6-nitro-7-(piperazin-1-yl)quinazoline (compound 68)

[0271] Using the compound obtained in Reference example 27 as starting material, the title compound was obtained according to the same method as Example 1.
 <sup>1</sup>H-NMR(DMSO-d<sub>6</sub>) δ(ppm): 8.66(s,1H), 8.20(s,1H), 7.33(s,1H), 6.98-6.86(m,3H), 5.90-5.89(br.-t,1H), 4.78(d,2H,

J=5.4Hz), 3.89(s,3H), 3.88(s,3H), 3.12-3.10(m,5H), 3.06-3.04(m,4H)

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15 Example 69: 6-nitro-7-(piperazin-1-yl)-4-(3,4,5-trimethoxylbenzylamino)quinazoline (compound 69)

[0272] Using the compound obtained in Reference example 28 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}$ H-NMR(DMSO-d<sub>6</sub>) δ(ppm): 8.66(s,1H), 8.25(s,1H), 7.33(s,1H), 6.61(s,2H), 5.98-5.96(br.-t,1H), 4.77(d,2H, J=5.4Hz), 3.86(s,3H), 3.85(s,6H), 3.13-3.11(m,5H), 3.07-3.05(m.4H)

Example 70: 4-[2-(2-chlorophenyl)ethylamino]-6-nitro-7-(piperazin-1-yl)quinazoline (compound 70)

[0273] Using the compound obtained in Reference example 29 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}$ H-NMR(DMSO-d<sub>6</sub>)  $^{6}$ (ppm): 8.88(s,1H), 8.74-8.70(br.-t,1H), 8.48(s,1H), 7.45-7.22(m,5H), 3.77(dt,2H,J=7.1,5.7Hz), 3.11-3.06(m,6H), 2.97-2.93(m,5H)

Example 71: 4-[2-(3-chlorophenyl)ethylamino]-6-nitro-7-(piperazin-1-yl)quinazoline (compound 71)

[0274] Using the compound obtained in Reference example 30 as starting material, the title compound was obtained according to the same method as Example 1.

<sup>1</sup>H-NMR(DMSO-d<sub>6</sub>)  $\delta$ (ppm): 8.86(s,1H), 8.68-8.66(br.-t,1H), 8.49(s,1H), 7.35-7.18(m,5H), 3.75(dt,2H,J=7.0,5.7Hz), 3.01-2.94(m,6H), 2.86-2.75(m,5H)

Example 72: 4-[2-(4-bromophenyl)ethylamino]-6-nitro-7-(piperazin-1-yl)quinazoline (compound 72)

[0275] Using the compound obtained in Reference example 31 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}$ H-NMR(DMSO-d<sub>6</sub>) δ(ppm): 8.83(s,1H), 8.62-8.60(br.-t,1H), 8.46(s,1H), 7.49-7.46(m,2H), 7.24-7.21(m,2H), 7.16(s, 1H), 3.73(dt,2H, J=6.8,5.7Hz), 3.00-2.90(m,6H), 2.82-2.79(m,5H)

Example 73: 4-{2-(2-fluorophenyl)ethylamino}-6-nitro-7-(piperazin-1-yl)quinazoline (compound 73)

45 [0276] Using the compound obtained in Reference example 32 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}$ H-NMR(DMSO-d<sub>6</sub>)  $\delta$ (ppm): 8.88(s,1H), 8.78-8.77(br.-t,1H), 8.48(s,1H), 7.32-7.27(m,3H), 7.13-7.09(m,2H), 3.77-3.75 (m,2H), 3.19-3.17(m,5H), 2.98-2.96(m,6H)

Example 74: 4-[2-(3-fluorophenyl)ethylamino]-6-nitro-7-(piperazin-1-yl)quinazoline (compound 74)

[0277] Using the compound obtained in Reference example 33 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}$ H-NMR(DMSO-d<sub>6</sub>)  $\delta$ (ppm): 8.86(s,1H), 8.74-8.72(br.-t,1H), 8.50(s,1H), 7.34-7.30(m,3H), 7.15-7.09(m,2H), 3.77-3.75 (m,2H), 3.20-3.15(m,6H), 3,04-3.08(m,5H)

Example 75: 4-[2-(4-methylphenyl)ethylamino]-6-nitro-7-(piperazin- 1-yl)quinazoline (compound 75)

[0278] Using the compound obtained in Reference example 35 as starting material, the title compound was obtained according to the same method as Example 1.

<sup>1</sup>H-NMR(DMSO-d<sub>e</sub>) δ(ppm): 8.87(s,1H), 8.68-8.66(br.-t,1H), 8.47(s,1H), 7.18-7.08(m,5H), 3.71 (dt,2H,J=7.0,5.8Hz), 3.03-3.00(m,4H), 2.93-2.87(m,7H), 2.26(s,3H)

Example 76: 4-[2-(2-methoxyphenyl)ethylamino]-6-nitro-7-(piperazin-1-yl)quinazoline (compound 76)

- 10 [0279] Using the compound obtained in Reference example 36 as starting material, the title compound was obtained according to the same method as Example 1.
  - $^{1}$ H-NMR(DMSO-d<sub>6</sub>)  $\delta$ (ppm): 8.90(s,1H), 8.75-8.73(br.-t,1H), 8.37(s,1H), 7.24-7.17(m,3H), 6.95-6.82(m,2H), 3.85(s, 3H), 3.62-3.57(m,2H), 3.12-3.04(m,7H), 3.00-2.96(m,4H)
- 15 Example 77: 4-[2-(3-methoxyphenyl)ethylamino]-6-nitro-7-(piperazin-1-yl)quinazoline (compound 77)

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[0280] Using the compound obtained in Reference example 37 as starting material, the title compound was obtained according to the same method as Example 1.

<sup>1</sup>H-NMR(DMSO-d<sub>6</sub>) δ(ppm): 9.00-8.97(br.-t,1H), 8.96(s,1H), 8.43(s,1H), 7.27-7.24(m,2H), 6.98-6.95(m,2H), 6.84-6.80 (m,1H), 3.87(s,3H), 3.58-3.54(m,2H), 3.10-3.04(m,7H), 2.99-2.96(m,4H)

Example 78: 4-[2-(4-methoxyphenyl)ethylamino]-6-nitro-7-(piperazin-1-yl)quinazoline (compound 78)

[0281] Using the compound obtained in Reference example 38 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}$ H-NMR(DMSO-d<sub>6</sub>)  $\delta$ (ppm): 8.85(s,1H), 8.65-8.61(br.-t,1H), 8.47(s,1H), 7.26-7.16(m,3H), 6.91-6.84(m,2H), 3.73-3.66 (m,5H), 3.00-2.98(m,4H), 2.97-2.81(m,7H)

Example 79: 4-[2-(3,4-dimethoxyphenyl)ethylamino]-6-nitro-7-(piperazin-1-yl)quinazoline (compound 79)

[0282] Using the compound obtained in Reference example 39 as starting material, the title compound was obtained according to the same method as Example 1.

 $^1\text{H-NMR}(\text{DMSO-d}_6)~\delta(\text{ppm}):$  8.89(s,1H), 8.65-8.63(br.-t,1H), 8.47(s,1H), 7.18(s,1H), 6.87-6.74(m,4H), 3.70-3.65(m,8H), 3.02-2.87(m,10H)

Example 80: 4-[2-(4-hydroxyphenyl)ethylamino]-6-nitro-7-(piperazin-1-yl)quinazoline (compound 80)

[0283] Using the compound obtained in Reference example 40 as starting material, the title compound was obtained according to the same method as Example 1.

<sup>1</sup>H-NMR(DMSO-d<sub>6</sub>) δ(ppm): 9.19(s,1H), 8.87(s,1H), 8.67-8.63 (br.-t,1H), 8.47(s,1H), 7.19(s,1H), 7.06-7.03(m,2H), 6.69-6.66(m,2H), 3.67(dt,2H,J=7.0,5.7Hz), 3.05-3.02(m,6H), 2.85-2.80(m,5H)

Example 81: 4-[2-(4-anilino)ethylamino]-6-nitro-7-(piperazin-1-yl)quinazoline (compound 81)

Using the compound obtained in Reference example 41 as starting material, the title compound was obtained according to the same method as Example 1.

<sup>1</sup>H-NMR(DMSO-d<sub>6</sub>)  $\delta$ (ppm): 8.97(s,1H), 8.74-8.72(br.-t,1H), 8.49(s,1H), 7.28(s,1H), 6.92-6.88(m,2H), 6.51-6.48(m, 2H), 4.89(br.-s,2H), 3.63(dt,2H,J=7.1,5.8Hz), 3.33-3.14(m,9H), 2.76(t,2H,J=7.1Hz)

50 Example 82: 4-(2-methyl-2-phenylethylamino)-6-nitro-7-(piperazin-1-yl)quinazoline (compound 82)

[0285] Using the compound obtained in Reference example 42 as starting material, the title compound was obtained according to the same method as Example 1.

<sup>1</sup>H-NMR(DMSO-d<sub>e</sub>) δ(ppm): 8.62(s,1H), 7.93(s,1H), 7.40-7.28 (m,6H), 5.52-5.53(br.-t,1H), 4.09-4.00(m,1H), 3.66-3.56 (m,1H), 3.23-3.15(m,1H), 3.10-3.08(m,4H), 3.07-3.03(m,5H), 1.89(s,3H)

Example 83: 4-(2,2-diphenylethylamino)-6-nitro-7-(piperazin-1-yl)quinazoline (compound 83)

[0286] Using the compound obtained in Reference example 43 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}$ H-NMR(DMSO-d<sub>6</sub>) δ(ppm): 8.87(s,1H), 8.71-8.69(br.-t,1H), 8.54(s,1H), 7.35-7.16 (m,11H), 4.58(t,1H,J=7.6Hz), 4.20-4.16(m,2H), 3.18-3.15 (m,5H), 3.14-3.12(m,4H)

Example 84: 4-(N-methylbenzylamino)-6-nitro-7-(piperazin-1-yl)quinazoline (compound 84)

[0287] Using the compound obtained in Reference example 44 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}$ H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 9.00-8.97(m,2H), 8.43(s,1H), 7.38-7.32 (m,5H), 4.77(s,2H), 3.12-3.08(m,5H), 3.05(s,3H), 3.00-2.96 (m,4H)

Example 85: 4-(dibenzylamino)-6-nitro-7-(piperazin-1-yl)quinazoline (compound 85)

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[0288] Using the compound obtained in Reference example 45 as starting material, the title compound was obtained according to the same method as Example 1.

<sup>1</sup>H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.88(s,1H), 8.65(s,1H), 8.37(s,1H), 7.40-7.35 (m,10H), 4.80(s,4H), 3.15-3.10(m,5H), 3.02-2: 98 (m,4H)

Example 86: 4-[(1-benzyl-4-piperidyl)amino]-6-nitro-7-(piperazin-1-yl)quinazoline (compound 86)

[0289] Using the compound obtained in Reference example 46 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}$ H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 8.59(s,1H), 8.19(s,1H), 7.35-7.29 (m,6H), 5.51(d,1H,J=7.8Hz), 4.28-4.25(m,1H), 3.56(s,2H), 3.12-3.09 (m,4H), 3.07-3.04(m,5H), 2.94-2.90(m,2H), 2.28-2.10(m,4H), 1.72-1.68(m,2H)

Example 87: 4-[[1-(4-methoxybenzyl)-4-piperidyl]amino]-6-nitro-7-(piperazin-1-yl)quinazoline (compound 87)

[0290] Using the compound obtained in Reference example 50 as starting material, the title compound was obtained according to the same method as Reference example 5 and Example 1.

 $^{1}$ H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 8.59(s,1H), 8.10(s,1H), 7.31(s,1H), 7.20-7.15(m,2H), 6.92-6.88(m,2H), 5.54(d,1H,J=7.2Hz), 4.51-4.49(m,1H), 3.57(s,2H), 3.30(s,3H), 3.15-3.12(m,4H), 3.10-3.07(m,5H), 2.94-2.92(m,2H), 2.28-2.16(m,4H), 1.67-1.64 (m,2H)

Example 88: 4-[(6-nitro-7-piperazinylquinazolin-4-yl)amino]piperidinyl-phenylketone (compound 88)

[0291] Using the compound obtained in Reference example 52 as starting material, the title compound was obtained according to the same method as Reference example 5 and Example 1.

 $^{1}$ H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 8.58(s,1H), 8.05(s,1H), 7.43-7.37(m,6H), 5.57(d,1H,J=7.3Hz), 4.39-4.37(m,2H), 3.18-3.15 (m,4H), 3.12-3.09(m,4H), 2.96-2.94(m,2H), 2.25-2.13(m,4H), 1.62-1.59 (m,2H)

Example 89: 4-{(6-nitro-7-piperazinylquinazolin-4-yl)amino]piperidinyl-(1,3-dioxaindan-5-yl)ketone (compound 89)

[0292] Using the compound obtained in Reference example 54 as starting material, the title compound was obtained according to the same method as Reference example 5 and Example 1.

 $^{1}$ H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 8.57(s,1H), 7.95(s,1H), 7.32(s,1H), 6.90-6.87(m,3H), 5.97(s,2H), 5.60(d,1H,J=7.3Hz), 4.48-4.46(m,1H), 3.16-3.13(m,5H), 3.08-3.05(m,4H), 2.93-2.91 (m,2H), 2.26-2.14(m,4H), 1.68-1.65 (m,2H)

Example 90: 4-[(6-nitro-7-piperazinylquinazolin-4-yl)amino]piperidinyl-(3-pyridyl)ketone (compound 90)

[0293] Using the compound obtained in Reference example 56 as starting material, the title compound was obtained according to the same method as Reference example 5 and Example 1.

 $^{1}$ H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 8.67-8.65(m,2H), 8.57(s,1H), 7.96(s,1H), 7.75-7.72(m,1H), 7.39-7.34(m,2H), 5.48(d,1H, J=7.5Hz), 4.55-4.53(m,1H), 3.15-3.12(m,4H), 3.10-3.07(m,5H), 2.93-2.91 (m,2H), 2.30-2.18(m,4H), 1.70-1.67 (m,2H)

Example 91: N-phenyl-[4-[(6-nitro-7-piperazinylquinazolin-4-yl)amino]piperidinyl]formamide (compound 91)

[0294] Using the compound obtained in Reference example 58 as starting material, the title compound was obtained according to the same method as Reference example 5 and Example 1.

<sup>1</sup>H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.57(s,1H), 8.10(s,1H), 7.40-7.30(m,6H), 6.48(s,1H), 5.55(d,1H,J=7.0Hz), 4.50-4.48(m,1H), 3.18-3.14 (m,5H), 3.12-3.08(m,4H), 2.97-2.95(m,2H), 2.32-2.22(m,4H), 1.68-1.65(m,2H)

Example 92: N-(4-fluorophenyl)-{4-[(6-nitro-7-piperazinylquinazolin-4-yl)amino]piperidinyl]formamide (compound 92)

[0295] Using the compound obtained in Reference example 60 as starting material, the title compound was obtained according to the same method as Reference example 5 and Example 1.
 1H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.60(s,1H), 8.00(s,1H), 7.38-7.32(m,3H), 7.13-7.10(m,2H), 6.52(s,1H), 5.58(d,1H,J=7.2Hz), 4.50-4.48(m,1H), 3.13-3.08(m,5H), 3.06-3.02(m,4H), 2.94-2.92 (m,2H), 2.33-2.21(m,4H), 1.70-1.68(m,2H)

Example 93: N-(4-methoxyphenyl)-[4-[(6-nitro-7-piperazinylquinazolin-4-yl)amino]piperidinyl]formamide (compound 93)

[0296] Using the compound obtained in Reference example 62 as starting material, the title compound was obtained according to the same method as Reference example 5 and Example 1.

<sup>1</sup>H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.60(s,1H), 8.15(s,1H), 7.35(s,1H), 7.22-7.15(m,3H), 6.95-6.85(m,2H), 5.45(d,1H,J=7.4Hz), 4.40-4.38(m,1H), 3.56(s,3H), 3.13-3.10(m,4H), 3.08-3.05(m,5H), 2.93-2.90(m,2H), 2.35-2.23(m,4H), 1.69-1.67(m,2H)

Example 94: [4-[(6-nitro-7-piperazinylquinazolin-4-yl)amino]piperidinyl](phenylamino)methane-1-thione (compound 94)

[0297] Using the compound obtained in Reference example 64 as starting material, the title compound was obtained according to the same method as Reference example 5 and Example 1.  $^{1}$ H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 8.60(s,1H), 8.01(s,1H), 7.38-7.32(m,6H), 6.87(s,1H), 5.47(d,1H,J=7.2Hz), 4.48-4.46(m,1H), 3.20-3.16 (m,5H), 3.10-3.06(m,4H), 2.95-2.93(m,2H), 2.28-2.25(m,4H), 1.70-1.68(m,2H)

Example 95: 4-[(6-nitro-7-piperazinylquinazolin-4-yl)amino]-1-phenylsulfonylpiperidine (compound 95)

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[0298] Using the compound obtained in Reference example 66 as starting material, the title compound was obtained according to the same method as Reference example 5 and Example 1.

1H-NMR(CDCL) 8(ppm): 8.58(s.1H), 7.95(s.1H), 7.35-7.29(m.6H), 5.65-5.63(br.d.1H), 4.53.4.50(m.1H), 2.30.3.15

 $^{1}$ H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 8.58(s,1H), 7.95(s,1H), 7.35-7.29(m,6H), 5.65-5.63(br.-d,1H), 4.53-4.50(m,1H), 3.20-3.15 (m,5H), 3.12-3.08(m,4H), 2.98-2.95(m,2H), 2.35-2.23(m,4H), 1.65-1.62(m,2H)

Example 96: 4-[(6-nitro-7-piperazinylquinazolin-4-yl)amino]-1-(4-methoxyphenyl)sulfonylpiperidine (compound 96)

[0299] Using the compound obtained in Reference example 68 as starting material, the title compound was obtained according to the same method as Reference example 5 and Example 1.
 <sup>1</sup>H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.60(s,1H), 7.93(s,1H), 7.22-7.15(m,3H), 6.98-6.90(m,2H), 5.60(d,1H,J=7.2Hz), 4.54-4.52 (m,1H), 3.57(s,3H), 3.23-3.18(m,4H), 3.15-3.10(m,5H), 2.96-2.91 (m,2H), 2.40-2.36(m,4H), 1.70-1.67(m,2H)

Example 97: 4-{(6-nitro-7-piperazinylquinazolin-4-yl)amino}-1-(4-fluorophenyl)sulfonylpiperidine (compound 97)

[0300] Using the compound obtained in Reference example 70 as starting material, the title compound was obtained according to the same method as Reference example 5 and Example 1.

<sup>1</sup>H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.58(s,1H), 7.92(s,1H), 7.39-7.35(m,2H), 7.29(s,1H), 7.18-7.15(m,2H), 5.62(d,1H,J=7.0Hz), 4.60-4.58 (m,1H), 3.20-3.15(m,5H), 3.12-3.09(m,4H), 2.99-2.94(m,2H), 2.42-2.38(m,4H), 1.72-1.68(m,2H)

Example 98: 6-nitro-4-(4-phenylpiperazinyl)-7-piperazinylquinazoline (compound 98)

[0301] Using the compound obtained in Reference example 71 as starting material, the title compound was obtained according to the same method as Example 1.

<sup>1</sup>H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.66(s,1H), 8.41(s,1H), 7.34-7.29(m,3H), 6.99-6.90(m,3H), 4.06-4.02(m,4H), 3.42-3.39(m, 4H), 3.18-3.14(m,5H), 3.09-3.06(m,4H)

Example 99: 4-[(4-methoxyphenyl)piperazinyl]-6-nitro-7-piperazinylquinazoline (compound 99)

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[0302] Using 7-chloro-4-[(4-methoxyphenyl)piperazinyl]-6-nitroquinazoline, a compound obtained analogously to Reference example 71, as starting material, the title compound was obtained according to the same method as Example

 $^{1}$ H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 8.57(s,1H), 8.45(s,1H), 7.31(s,1H), 6.95-6.81(m,4H), 4.00-4.04(m,4H), 3.72(s,3H), 3.21-3.25 (m,4H), 3.12-3.14(m,5H), 3.00-2.95(m,4H)

Example 100: 4-{(2-methoxyphenyl)piperazinyl]-6-nitro-7-piperazinylquinazoline (compound 100)

[0303] Using 7-chloro-4-[(2-methoxyphenyl)piperazinyl]-6-nitroquinazoline, a compound obtained analogously to Reference example 71, as starting material, the title compound was obtained according to the same method as Example 1.

<sup>1</sup>H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.55(s,1H), 8.40(s,1H), 7.42-7.29(m,3H), 7.11-7.08(m,2H), 4.02-3.98(m,4H), 3.64(s,3H), 3.47-3.44 (m,4H), 3.20-3.16(m,5H), 3.10-3.07(m,4H)

Example 101: 4-[(4-chlorophenyl)piperazinyl]-6-nitro-7-piperazinylquinazoline (compound 101)

[0304] Using 7-chloro-4-{(4-chlorophenyl)piperazinyl]-6-nitroquinazoline, a compound obtained analogously to Reference example 71, as starting material, the title compound was obtained according to the same method as Example 1. 

1H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 8.56(s,1H), 8.49(s,1H), 7.34(s,1H), 7.24-7.20(m,2H), 6.96-6.92(m,2H), 4.03-3.99(m,4H), 3.38-3.35(m,4H), 3.18-3.16(m,4H), 3.06-3.02(m,5H)

Example 102: 4-{(4-fluorophenyl)piperazinyl]-6-nitro-7-piperazinylquinazoline (compound 102)

[0305] Using 7-chloro-4-[(4-fluorophenyl)piperazinyl]-6-nitroquinazoline, a compound obtained analogously to Reference example 71, as starting material, the title compound was obtained according to the same method as Example 1.  $^{1}$ H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 8.60(s,1H), 8.35(s,1H), 7.37-7.30(m,3H), 7.15-7.13(m,2H), 4.10-4.06(m,4H), 3.52-3.48(m,4H), 3.24-3.20(m,5H), 3.12-3.09(m,4H)

Example 103: 6-nitro-7-piperazinyl-4-{(2-pyridyl) piperazinyl]quinazoline (compound 103)

[0306] Using 7-chloro-6-nitro-4-[(2-pyridyl)piperazinyl]quinazoline, a compound obtained analogously to Reference example 71, as starting material, the title compound was obtained according to the same method as Example 1. 

1H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 8.67-8.65(m,2H), 8.57(s,1H), 8.18(s,1H), 7.54-7.49(m,2H), 7.31(s,1H), 4.00-3.96(m,4H), 3.42-3.38 (m,4H), 3.15-3.11(m,5H), 3.02-2.98(m,4H)

Example 104: 6-nitro-4-(4-benzylpiperazinyl)-7- piperazinylquinazoline (compound 104)

- [0307] Using 4-(4-benzylpiperazinyl)-7-chloro-6-nitroquinazoline, a compound obtained analogously to Reference example 71, as starting material, the title compound was obtained according to the same method as Example 1. ¹H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.68(s,1H), 8.40(s,1H), 7.35-7.30 (m,4H), 7.11-7.08(m,2H). 4.03-4.00(m,4H), 3.55(s,2H), 3.47-3.43 (m,4H), 3.14-3.10(m,5H), 3.06-3.02(m,4H)
- Example 105: 4-(6-nitro-7-piperazinylquinazolin-4-yl)piperazinyl-phenylketone (compound 105)

[0308] Using the compound obtained in Reference example 74 as starting material, the title compound was obtained according to the same method as Example 1.

<sup>1</sup>H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.57(s,1H), 8.43(s,1H), 7.35-7.30 (m,5H), 7.21(s,1H), 4.12-4.08(m,4H), 3.56-3.52(m,4H), 3.24-3.20 (m,5H), 3.12-3.09(m,4H)

Example 106: 4-(6-nitro-7-piperazinylquinazolin-4-yl)piperazinyl-(4-fluorophenyl)ketone (compound 106)

[0309] Using the compound obtained in Reference example 77 as starting material, the title compound was obtained according to the same method as Example 1.

<sup>1</sup>H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.60(s,1H), 8.49(s,1H), 7.41-7.38 (m,3H), 7.18-7.14(m,2H), 4.08-4.04(m,4H), 3.60-3.56(m, 5H), 3.17-3.13 (m,4H), 3.08-3.04(m,4H)

Example 107: 4-(6-nitro-7-piperazinylquinazolin-4-yl)piperazinyl-(4-methoxyphenyl)ketone (compound 107)

[0310] Using the compound obtained in Reference example 80 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}$ H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.60(s,1H), 8.37(s,1H), 7.38-7.30 (m,3H), 7.12-7.08(m,2H), 4.05-4.01(m,4H), 3.72(s,3H), 3.48-3.47 (m,4H), 3.15-3.10(m,5H), 3.08-3.05(m,4H)

Example 108: 4-(6-nitro-7-piperazinylquinazolin-4-yl)piperazinyl-1,3-dioxaindan-5-yl-ketone (compound 108)

10 [0311] Using the compound obtained in Reference example 83 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}$ H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 8.58(s,1H), 8.21(s,1H), 7.30 (s,1H), 7.10-7.05(m,3H), 5.97(s,2H), 4.08-4.05(m,4H), 3.42-3.38 (m,4H), 3.16-3.12(m,5H), 3.10-3.06(m,4H)

15 Example 109: 1-(6-nitro-7-piperazinylquinazolin-4-yl)-4-(phenylsulfonyl)piperazine (compound 109)

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[0312] Using the compound obtained in Reference example 86 as starting material, the title compound was obtained according to the same method as Example 1.

<sup>1</sup>H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.57(s,1H), 8.46(s,1H), 7.32-7.28(m,5H), 7.21(s,1H), 4.07-4.03(m,4H), 3.65-3.61(m,4H), 3.20-3.15 (m,5H), 3.07-3.03(m,4H)

Example 110: 1-(6-nitro-7-piperaziny|quinazolin-4-y|)-4-{(4-fluoropheny|)sulfony|]piperazine (compound 110)

[0313] Using the compound obtained in Reference example 89 as starting material, the title compound was obtained according to the same method as Example 1.

<sup>1</sup>H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.55(s,1H), 8.25(s,1H), 7.40-7.36(m,3H), 7.16-7.12(m,2H), 4.10-4.06(m,4H), 3.48-3.42(m, 5H), 3.18-3.14 (m,4H), 3.08-3.04(m,4H)

Example 111: 4-[2-(4-chlorophenyl)ethylamino]-6-fluoro-7-(piperazin-1-yl)quinazoline (compound 111)

[0314] Using the compound obtained in Reference example 93 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}$ H-NMR(DMSO-d<sub>6</sub>)  $^{8}$   $^{6}$  (ppm): 8.35-8.33(br.-t,1H), 8.15(s,1H), 8.05-8.02(m,1H), 7.76-7.73(m,1H), 7.36-7.29(m,4H), 3.68 (dt,2H,J=6.3,5.9Hz), 3.07-3.03(m,5H), 2.98-2.93(m,6H)

Example 112: 6-fluoro-4-[(4-fluorophenyl)]ethylamino]-7-(piperazin-1-yl)quinazoline (compound 112)

[0315] Using the compound obtained in Reference example 94 as starting material, the title compound was obtained according to the same method as Example 1.

<sup>1</sup>H-NMR(DMSO-d<sub>6</sub>) δ(ppm): 8.76-8.74(br.-t,1H), 8.12(s,1H), 8.06-8.02(m,1H), 7.75-7.70(m,1H), 7.33-7.30(m,2H), 7.16-7.13(m,2H), 3.70-3.68(m,2H), 3.32-3.28(m,5H), 2.97-2.92 (m,6H)

Example 113: 6-fluoro-4-(4-fluorobenzylamino)-7-(piperazin-1-yl)quinazoline (compound 113)

45 [0316] Using the compound obtained in Reference example 95 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}$ H-NMR(DMSO-d<sub>6</sub>)  $\delta$ (ppm): 8.80-8.78(br.-t,1H), 8.16(s,1H), 8.10-8.06(m,1H), 7.79-7.73(m,1H), 7.40-7.38(m,2H), 7.18-7.15(m,2H), 4.80-4.74(m,2H), 3.12-3.08(m,4H), 3.05-3.02(m,5H)

50 Example 114: 6-fluoro-4-[3,4-(methylenedioxy)benzylamino]-7-(piperazin-1-yl)quinazoline (compound 114)

[0317] Using the compound obtained in Reference example 96 as starting material, the title compound was obtained according to the same method as Example 1.

<sup>1</sup>H-NMR(DMSO-d<sub>6</sub>) δ(ppm): 8.76-8.74(br.-t,1H), 8.18(s,1H), 8.00-7.96(m,1H), 7.76-7.72(m,1H), 6.95-6.92(m,3H), 5.97 (s.2H), 4.82-4.78(m,2H), 3.12-3.08(m,5H), 3.06-3.02 (m,4H)

Example 115: 6-fluoro-4-[(4-fluoro)anilino]-7-(piperazin-1-yl)quinazoline (compound 115)

[0318] Using the compound obtained in Reference example 97 as starting material, the title compound was obtained according to the same method as Example 1.

1H-NMR(CDCI<sub>3</sub>) δ(ppm): 8.65(s,1H), 7.66-7.61(m,2H), 7.47-7.28(m,2H), 7.14-7.08(m,3H), 3.26-3.07(m,9H)

Example 116: 6-fluoro-4-[(3,4-methylenedioxy)anilino]-7-(piperazin-1-yl)quinazoline (compound 116)

[0319] Using the compound obtained in Reference example 98 as starting material, the title compound was obtained according to the same method as Example 1.

<sup>1</sup>H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.63(s,1H), 7.44-7.26(m,3H), 7.02(brs,1H), 6.94-6.81(m,2H), 6.00(s,2H), 3.26-3.07(m,9H)

Example 117: 6-fluoro-4-[2-{(4-fluoro)phenyl]ethylamino]-7-(piperazin-1-yl)quinazoline (compound 117)

[0320] Using the compound obtained in Reference example 99 as starting material, the title compound was obtained according to the same method as Example 1.
1H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.59(s,1H), 7.22-6.99(m,6H), 5.33 (brt,1H,J=5.1Hz), 3.88(dt,2H,J=5.1,7.0Hz), 3.22-3.06(m, 9H), 2.99 (t,2H,J=7.0Hz)

20 Example 118: 6-fluoro-4-[2-[(3,4-methylenedioxy)phenyl] ethylamino]-7-(piperazin-1-yl)quinazoline (compound 118)

[0321] Using the compound obtained in Reference example 100 as starting material, the title compound was obtained according to the same method as Example 1.

<sup>1</sup>H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.59(s,1H), 7.25-7.08(m,2H), 6.79-6.67(m,3H), 5.96(s,2H), 5.34-5.30(m,1H), 3.86-3.82(m, 2H), 3.22-3.06(m,9H), 2.93(t,2H,J=6.6Hz)

Example 119: 6-fluoro-4-[3-[(4-fluoro)phenyl]propylamino]-7-(piperazin-1-yl)quinazoline (compound 119)

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[0322] Using the compound obtained in Reference example 101 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}$ H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 8.56(s,1H), 7.25-6.96(m,6H), 5.21 (brt,1H,J=5.7Hz), 3.68(dt,2H,J=5.7,6.6Hz), 3.23-3.06 (m, 9H), 2.75(t,2H,J=7.3Hz), 2.05(tt,2H,J=6.6,7.3Hz)

Example 120: 6-fluoro-4-[3-[(3,4-methylenedioxy)phenyl]propylamino]-7-(piperazin-1-yl)quinazoline (compound 120)

[0323] Using the compound obtained in Reference example 102 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}$ H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 8.55(s,1H), 7.24-7.20(m,1H), 7.01 (d,1H,J=13.2Hz), 6.77-6.66(m,3H), 5.94(s,2H), 5.20(brt, 1H, J=5.4Hz), 3.68(dt,2H,J=5.4,6.3Hz), 3.23-3.06 (m,9H), 2.75 (t,2H,J=7.4Hz), 2.03(tt,2H,J=6.3,7.4Hz)

Example 121: 4-(3,4-ethylenedioxy)benzylamino]-6-fluoro-7-(piperazin-1-yf)quinazoline (compound 121)

[0324] Using the compound obtained in Reference example 103 as starting material, the title compound was obtained according to the same method as Example 1.

<sup>1</sup>H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.60(s,1H), 7.24-7.21(m,2H), 6.91-6.86(m,3H), 5.47(brt,1H,J=5.4Hz), 4.71(d,2H,J=5.4Hz), 4.26 (s,4H), 3.23-3.06 (m,9H)

Example 122: 6-fluoro-4-[[N-methyl-N'-(3,4-methylenedioxybenzyl)]amino]-7-(piperazin-1-yl)quinazoline (compound 122)

[0325] Using the compound obtained in Reference example 104 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}$ H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 8.60(s,1H), 7.54(d,1H,J=14.6Hz), 7.28- 7.26(m,1H), 6.87-6.83(m,3H), 5.98(s,2H), 4.83(s, 2H), 3.31-3.27(m,4H), 3.23(s,3H), 3.15-3.12(m,4H), 2.76-2.72(m,1H)

Example 123: 4-[(4-fluoro)anilino]-6-nitro-7-(piperazin-1-yl)quinazoline (compound 123)

[0326] Using the compound obtained in Reference example 105 as starting material, the title compound was obtained

according to the same method as Example 1.

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 $^{1}$ H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 8.68(s,1H), 8.42(s,1H), 7.68-7.63(m,2H), 7.47(s,1H), 7.38(s,1H), 7.17-7.10(m,2H), 3.15-3.06 (m,9H)

5 Example 124: 4-[(3,4-methylenedioxy)anilino]-6-nitro-7-(piperazin-1-yl)quinazoline (compound 124)

[0327] Using the compound obtained in Reference example 106 as starting material, the title compound was obtained according to the same method as Example 1.

<sup>1</sup>H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.67(s,1H), 8.39(s,1H), 7.45(brs,1H), 7.35-7.31(m,2H), 6.96-6.82(m,2H), 6.01(s,2H), 3.16-3.04 (m,9H)

Example 125: 4-[2-(3,4-methylenedioxy)phenyl]ethylamino]-6-nitro-7-(piperazin-1-yl)quinazoline (compound 125)

[0328] Using the compound obtained in Reference example 107 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}$ H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 8.63(s,1H), 8.10(s,1H), 7.31(s,1H), 6.79-6.67(m,3H), 5.96(s,2H), 5.79(brt,1H,J=5.7Hz), 3.88 (dt,2H,J=5.7,6.8Hz), 3.11-3.04(m,9H), 2.95(t,2H,J=6.8Hz)

Example 126: 4-[3-[(4-fluoro)phenyi]propylamino]-6-nitro-7-(piperazin-1-yl)quinazoline (compound 126)

[0329] Using the compound obtained in Reference example 108 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}\text{H-NMR}(\text{CDCl}_{3})\,\delta(\text{ppm}); 8.60(\text{s},1\text{H}), 8.06(\text{s},1\text{H}), 7.30(\text{s},1\text{H}), 7.20-7.15(\text{m},2\text{H}), 7.01-6.95(\text{m},2\text{H}), 5.62(\text{brt},1\text{H},J=5.7\text{Hz}), 3.71(\text{dt},2\text{H},J=5.7,6.7\text{Hz}), 3.12-3.05(\text{m},9\text{H}), 2.76(\text{t},2\text{H},J=7.6\text{Hz}), 2.07(\text{tt},2\text{H},J=6.7,7.6\text{Hz})$ 

Example 127: 4-[3-[(3,4-methylenedioxy)phenyl]propylamino]-6-nitro-7-(piperazin-1-yl)quinazoline (compound 127)

[0330] Using the compound obtained in Reference example 109 as starting material, the title compound was obtained according to the same method as Example 1.

<sup>6</sup> <sup>1</sup>H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.59(s,1H), 7.95(s,1H), 7.29(s,1H), 6.75-6.66(m,3H), 5.92(s,2H), 5.58(brt,1H,J=5.1Hz), 3.71 (dt,2H,J=5.1,6.4Hz), 3.11-3.04(m,9H), 2.72(t,2H, J=7.2Hz), 2.05(tt,2H,J=6.4,7.2Hz)

Example 128: 4-{(3,4-difluoro)benzylamino]-6-nitro-7-(piperazin-1-yl)quinazoline (compound 128)

(0331) Using the compound obtained in Reference example 110 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}$ H-NMR(DMSO-d<sub>6</sub>)  $\delta$ (ppm): 9.12-9.08(m,1H), 8.93(s,1H), 8.46 (s,1H), 7.47-7.23(m,4H), 4.73(d,2H,J=5.4Hz), 3.05-2.90 (m,9H)

40 Example 129: 4-[(4-ethoxycarbonyl)benzylamino]-6-nitro-7-(piperazin-1-yl)quinazoline (compound 129)

[0332] Using the compound obtained in Reference example 111 as starting material, the title compound was obtained according to the same method as Example 1.

<sup>1</sup>H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.64(s,1H), 8.27(s,1H), 8.03(d,2H, J=8.4Hz), 7.44(d,2H,J=8.4Hz), 7.34(s,1H), 6.16-6.12(m, 1H), 4.94(d,2H,J=3.8Hz), 4.37(q,2H,J=7.2Hz), 3.14-3.03(m,9H), 1.39(t,3H, J=7.2Hz)

Example 130: 4-{(3,4-ethylenedioxy)benzylamino}-6-nitro-7-(piperazin-1-yl)quinazoline (compound 130)

[0333] Using the compound obtained in Reference example 112 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}$ H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 8.64(s,1H), 8.21(s,1H), 7.31(s,1H), 6.91-6.86(m,3H), 5.93(brt,1H,J=5.4Hz), 4.73(d,2H,J=5.4Hz), 4.26(s,4H), 3.11-3.04(m,9H)

Example 131: 4-[(3,5-di-tert-butyl-4-hydroxy)benzylamino]-6-nitro-7-(piperazin-1-yl)quinazoline (compound 131)

[0334] Using the compound obtained in Reference example 113 as starting material, the title compound was obtained according to the same method as Example 1.

<sup>1</sup>H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.67(s,1H), 8.18(s,1H), 7.32(s,1H), 7.22(s,2H), 5.77-5.74(m,1H), 5.29(s,1H), 4.70(d,2H,

J=4.3Hz), 3.12-3.04(m,9H), 1.45(s,18H)

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Example 132: 4-((3-methoxy-4-propoxy)benzylamino)-6-nitro-7-(piperazin-1-yl)quinazoline (compound 132)

- [0335] Using the compound obtained in Reference example 114 as starting material, the title compound was obtained according to the same method as Example 1.
  - $^{1}$ H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 8.65(s,1H), 8.26(s,1H), 7.31(s,1H), 6.93-6.83(m,3H), 6.10(brt,1H,J=4.9Hz), 4.76(d,2H, J=4.9Hz), 3.97(t,2H,J=6.9Hz), 3.84(s,3H), 3.12-3.03(m,9H), 1.86(dt,2H, J=6.9,7.4Hz), 1.03(t,3H,J=7.4Hz)
- 10 Example 133: 4-{(4-cyclopentyloxy-3-methoxy)benzylamino]-6-nitro-7-(piperazin-1-yl)quinazoline (compound 133)
  - [0336] Using the compound obtained in Reference example 115 as starting material, the title compound was obtained according to the same method as Example 1.
  - <sup>1</sup>H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.66(s,1H), 8.26(s,1H), 7.32(s,1H), 6.92-6.83(m,3H), 6.08(brt,1H,J=4.9Hz), 4.76-4.74(m,3H), 3.82(s,3H), 3.12-3.03(m,9H), 1.95-1.78(m,6H), 1.63-1.57 (m,2H)
    - Example 134: 6-nitro-4-[(4-nitro)benzylamino]-7- (piperazin-1-yl)quinazoline (compound 134)
- [0337] Using the compound obtained in Reference example 116 as starting material, the title compound was obtained according to the same method as Example 1.
  - $^{1}$ H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.62(s,1H), 8.35(s,1H), 8.20(d,2H, J=8.6Hz), 7.55(d,2H,J=8.6Hz), 7.34(s,1H), 6.49(brt,1H, J=5.9Hz), 5.00(d,2H,J=5.9Hz), 3.13-3.03(m,9H)
  - Example 135: 4-[[6-chloro-(3,4-methylenedioxy)]benzylamino] -6-nitro-7-(piperazin-1-yl)quinazoline (compound 135)
  - [0338] Using the compound obtained in Reference example 117 as starting material, the title compound was obtained according to the same method as Example 1.
  - $^{1}$ H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 8.64(s,1H), 8.21(s,1H), 7.32(s,1H), 6.99(s,1H), 6.88(s,1H), 6.07(brt,1H, J=5.9Hz), 5.98(s, 2H), 4.85(d,2H,J=5.9Hz), 3.13-3.03(m,9H)
  - Example 136: 4-[[5-methoxy-(3,4-methylenedioxy)] benzylamino]-6-nitro-7-(piperazin-1-yl)quinazoline (compound 136)
  - [0339] Using the compound obtained in Reference example 118 as starting material, the title compound was obtained according to the same method as Example 1.
    - <sup>1</sup>H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.65(s,1H), 8.22(s,1H), 7.33(s,1H), 6.59-6.57(m,2H), 5.98(s,2H), 5.92(brt,1H, J=5.4Hz), 4.74 (d,2H,J=5.4Hz), 3.91(s,3H), 3.13-3.04(m,9H)
    - Example 137: 4-{(4-benzyloxy)benzylamino}-6-nitro-7-(piperazin-1-yl)quinazoline (compound 137)
    - [0340] Using the compound obtained in Reference example 119 as starting material, the title compound was obtained according to the same method as Example 1.
    - $^{1}$ H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 8.65(s,1H), 8.18(s,1H), 7.46-7.31(m,8H), 7.01-6.96(m,2H), 5.84(brt,1H, J=5.4Hz), 5.09(s, 2H), 4.77(d,2H,J=5.4Hz), 3.13-3.03(m,9H)
    - Example 138: 4-{(4-acetamide)benzylamino}-6-nitro-7-(piperazin-1-yl)quinazoline (compound 138)
    - [0341] Using the compound obtained in Reference example 120 as starting material, the title compound was obtained according to the same method as Example 1.
  - <sup>1</sup>H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.64(s,1H), 8.25(s,1H), 7.51-7.48(m,2H), 7.35-7.21(m,4H), 6.10(brt,1H, J=4.9Hz), 4.81(d, 2H,J=4.9Hz), 3.13-3.03(m,9H), 2.19(s,3H)
    - Example 139: 4-{(4-cyclopropylcarbamoyl)benzylamino}-6-nitro-7-(piperazin-1-yl)quinazoline (compound 139)
- 155 [0342] Using the compound obtained in Reference example 121 as starting material, the title compound was obtained according to the same method as Example 1.
  - <sup>1</sup>H-NMR(CDCl<sub>3</sub>)  $\delta$ (ppm): 8.61(s,1H), 8.35(s,1H), 7.67(s,1H), 7.44-7.41(m,2H), 7.27-7.24(m,3H), 6.66(brt,1H, J=5.4Hz), 4.76(d,2H,J=5.4Hz), 3.08-3.02(m,9H), 1.57-1.48(m,1H), 1.10-1.04(m,2H), 0.88-0.81(m,2H)

Example 140: 4-{(3,5-dimethyl-4-hydroxy)benzylamino}-6-nitro-7-(piperazin-1-yl)quinazoline (compound 140)

[0343] Using the compound obtained in Reference example 122 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}$ H-NMR(DMSO-d<sub>6</sub>) δ(ppm): 8.92-8.87(m,2H), 8.45(s,1H), 8.12(s,1H), 7.16(s,1H), 6.90(s,2H), 4.58(d,2H,J=5.4Hz), 2.99-2.79(m,9H), 2.13(s,6H)

Example 141: 4-[(3-cyclopentyloxy-4-methoxy)benzylamino]-6-nitro-7-(piperazin-1-yl)quinazoline (compound 141)

[0344] Using the compound obtained in Reference example 123 as starting material, the title compound was obtained according to the same method as Example 1.
 <sup>1</sup>H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.63(s,1H), 8.26(s,1H), 7.30(s,1H), 6.93-6.85(m,3H), 6.08(brt,1H, J=5.0Hz), 4.77-4.73(m, 3H), 3.80(s,3H), 3.14-3.05(m,9H), 2.00-1.83(m,6H), 1.67-1.61 (m,2H)

Example 142: 4-((4-methoxy-3-pivaloyloxy)benzylamino]-6-nitro-7-(piperazin-1-yl)quinazoline (compound 142)

[0345] Using the compound obtained in Reference example 124 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}$ H-NMR(CDCl<sub>3</sub>) δ(ppm): 8.64(s,1H), 8.26(s,1H), 7.31(s,1H), 7.24-7.20(m,1H), 7.06-7.05(m,1H), 6.95-6.92(m,1H), 6.15(brt,1H, J=5.4Hz), 4.75(d,2H,J=5.4Hz), 3.81(s,3H), 3.13-3.03(m,9H), 1.36(s,9H)

Example 143: 4-{(4-hydroxy)benzylamino}-6-nitro-7-(piperazin-1-yl)quinazoline (compound 143)

[0346] Using the compound obtained in Reference example 125 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}$ H-NMR(DMSO-d<sub>6</sub>)  $\delta$ (ppm): 9.31(s,1H), 9.02-8.93(m,2H), 8.46(s,1H), 7.22(s,1H), 7.17(d,2H,J=8.4Hz), 6.75(d,2H,J=8.4Hz), 4.64(brt,1H,J=5.4Hz), 3.07-2.93(m,9H)

Example 144: 4-{(4-cyano)benzylamino]-6-nitro-7-(piperazin-1-yl)quinazoline (compound 144)

[0347] Using the compound obtained in Reference example 126 as starting material, the title compound was obtained according to the same method as Example 1.

 $^{1}\text{H-NMR(CDCl}_{3})\ \delta(\text{ppm}):\ 8.61(\text{s},1\text{H}),\ 8.34(\text{s},1\text{H}),\ 7.64(\text{d},2\text{H},\ J=8.9\text{Hz}),\ 7.50(\text{d},2\text{H},\text{J}=8.9\text{Hz}),\ 7.33(\text{s},1\text{H}),\ 6.45(\text{brt},1\text{H},\ J=5.7\text{Hz}),\ 4.96(\text{d},2\text{H},\text{J}=5.7\text{Hz}),\ 3.13-3.03(\text{m},9\text{H})$ 

Example 145: TNF-α production inhibiting test using human PBMC (peripheral blood mononuclear cells)

Preparation of human PBMC

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40 [0348] The blood of a healthy person was taken with a vacuum blood-collecting tube (Nipro neotube) and diluted up to two-fold with physiological saline (Otsuka Pharmaceuticals). To the diluted blood was added 6% dextran T-500 (prepared after dissolution in physiological saline (Otsuka Pharmaceuticals) and sterilization with an autoclave) so as to make a final concentration of 1%. The solution was subjected to tumble mixing and allowed to stand at room temperature for 30 minutes to precipitate the erythrocytes. The supernatant was collected and subjected to centrifugation at 20 °C and at 1,500 rpm for 10 minutes. The cells were suspended in 3 ml of RPMI1640 culture medium (Asahi 45 Technoglias) and overlaid on the solution surface of 3 ml Lymphoprep (NYCOMED). Further, with 1.5 ml of RPMI1640 culture medium being added to the tube which had contained the cell suspension liquid, the cells attached to the tube, which had remained uncollected, were suspended for collection and overlaid on the Lymphoprep previously mentioned. This operation was repeated again. After centrifugation at 20 °C and at 2,000 rpm for 30 minutes, there was collected a fraction of peripheral blood mononuclear cells present in the boundary surface between the Lymphoprep and the RPMI1640 culture medium. The cells were washed twice with 10 ml RPMI1640 culture medium to remove the Lymphoprep and then suspended in a RPMI1640 culture medium added with 10% bovine fetal serum (IRVINE SCIENTIFIC), 100 U/ml penicillin and 100 μg/ml streptomycin (hereinafter referred to as cRPMI1640 culture medium). The number of the cells was measured by Tuerk dying, and the cells, after adjustment to 3 imes 106 cells/ml, were planted in 100  $\mu$ V 55 well on a 96-well plate (FALCON). The cells were cultured at 37 °C under 5%CO2 atmosphere for about 5 hours.

Induction of TNF-a production by LPS stimulus

[0349] LPS (E.coli 0111:B4, DIFCO), which had been prepared to 10 mg/ml with water and kept at -20, was diluted to 100 μg/ml with cRPMI1640 culture medium and subjected to sterile filtration. The 100 μg/ml LPS was diluted with cRPMI1640 culture medium to prepare 20 ng/ml LPS. A compound to be tested which was dissolved in DMSO at 1,000-fold concentration was diluted to 500-fold with cRPMI1640 culture medium containing 20 ng/ml LPS and added in 100 μl/well to the cells which had been planted on the previously mentioned 96-well plate (final concentration of LPS: 10 ng/ml). For use as the control group, the solutions were made by diluting DMSO of the same volume as in the test compounds with cRPMI1640 culture medium containing 20 ng/ml LPS, and they were added to the cells. These cells were cultured at 37 °C under 5%CO<sub>2</sub> atmosphere for 16 hours.

Determination of TNF-α activity (ELISA method)

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[0350] To the 96-well plate the mouse anti-human TNF-α antibody (prepared to 2 μg/ml with Coating buffer\*1) was added so as to make 100 µl/well and allowed to stand at 4 °C overnight. After 5-times washing with Wash buffer\*2 (300µl/well), the Blocking buffer\*3 was added to the solutions, which were allowed to stand 37 °C for 2 hours. The culture supernatants were diluted up to 5-fold in the plate (supernatant 20 µl being added to 80 µl of cRPMI1640 culture medium). Simultaneously, for using for a calibration curve, a series of dilution of recombinant human TNF- $\alpha$  was prepared and allowed to stand 37 °C for 1 hour. After 5-times washing with Wash buffer (300 µl /well), biotinylated rabbit anti-human TNF-α antibody (prepared to 0.25 µg/ml with Antibody diluent\*4) was added so as to make 100 µl /well and allowed to stand at 37 °C for 1 hour. After 5-times washing with Wash buffer (300  $\mu$ l /well), Streptavidin-Horseradish peroxidase(prepared to 1:4000 with Antibody diluent) was added to make 100 μl /well and allowed to stand at 37 °C for 15 minutes. After 5-times washing with Wash buffer (300 μl /well), TMB microwell peroxidase substrate (KPL) was added to make 100 μl /well and allowed to stand at room temperature for 10 minutes. Stop solution\*5 was added to make 100 ul /well, absorbance (A450nm)of each well was measured with a microplate reader, and then the data was processed with a Microplate Manager III (BIO-RAD). The human TNF-α activity was determined quantitatively according to the calibration curve from the recombinant TNF- $\alpha$ . The ELISA of human TNF- $\alpha$  mentioned above was conducted using human TNF- $\alpha$  duoset (genzyme). The residual activity of human TNF- $\alpha$  production of the test compound was determined according to the following formula.

[0351] Residual activity of human TNF- $\alpha$  production (%)=(human TNF- $\alpha$  activity in culture supermatants of the group added with the compounds)/(human TNF- $\alpha$  activity in culture supermatants of the group not added with the compounds)

- ¹ Coating buffer: 0.1M carbonate, pH 9.4-9.8
- <sup>2</sup> Wash buffer: PBS, 0.05% Tween20 (PBS: Takara Shuzo)
- <sup>3</sup> Blocking buffer: 1% bovine serum albumin (BSA), PBS, pH 7.2-7.4 (BSA:SIGMA)
- 4 Antibody diluent: 1% BSA, 0.05% Tween20, PBS, pH7.2-7.4
- 5 Stop solution: 2NH<sub>2</sub>SO<sub>4</sub>

[0352] From the residual activity of human TNF- $\alpha$  production determined by the above formula, the inhibitory activity IC<sub>50</sub> was determined. The results are shown in Table 21.

Table 21

	Table 21			
	Example	Inhibiting activity	Example	TNF-a Inhibiting
5		$IC_{50}(\mu M)$		activity IC <sub>s0</sub> (μM)
<b>J</b>	1	0.8	61	0.3
	2	2.1	62	0.3
	3	1.4	113	0.9
	5	1.9	114	0.6
0	6	2.5	116	3.0
	8	1.4	117	4.7
	9	1.3	118	2.2
	10	0.4	119	2.3
5	18	0.4	120	2.0
	25	0.4	121	2.5
	31	0.08	122	0.6
	37	0.6	123	0.6
20	42	0.5	124	1.7
.0	54	0.4	125	3.3
	56	1.1	126	0.7
	57	2.3	127	0.5
	58	3.5	128	0.7
25	59	0.5	129	0.2
	60	0.6	130 .	2.5
	63	1.6	131	0.3
	64	0.4		
10	65	1.2		•
	66	0.7		
	67	0.3		
	68	2.4		
5	69	1.8		
5	70	0.6		
	71	0.6		
	72	0.4		
	75	1.9		
0	78	1.1		
	_ 79	2.3		
	_ 80	2.5		
	81	2.5		
15	82	7.2		
	86	6.4		
	98	2.1		
	99	0.9		
	101	1.4		

Example 146: IL-4 and IL-5 production inhibiting test

[0353] A 6-weeks-old BALB/c-mouse (Nippon Charles River) was bred preparatively for 1 week and given at the day 0 and day 14 intraperitoneal injection of 100 µl PBS to give immunity which PBS contained 0.1 mg/ml of Ovalbumin (OVA) and 40 mg/ml of aluminum hydroxide. At the day 21 the spleen was taken out from the mouse. The spleen was dissected with a pincette in cooled PBS, passed through a mesh and subjected to centrifugation at 4 °C at 1,500 rpm for 5 minutes. The cells was added with 5 ml of 0.2% NaCl to destroy erythrocytes, and then was made isotonic by

adding 5 ml of 1.6% of NaCl. After centrifugation at 4 °C, 1,500 rpm for 5 minutes, the cells were washed twice with 10 ml of RPMI1640 culture medium. The obtained spleen cells were suspended in cRPMI1640 medium, and the number of the cells was measured by Tuerk dying. After being adjusted to  $1 \times 10^7$  cells/ml, the cells were planted in 100  $\mu$ V well on a 96-well plate (FALCON). The cells were cultured at 37 °C under 5% CO<sub>2</sub> atmosphere for about 4 hours.

OVA was prepared to 10 mg/ml with cRPMI1640 culture medium and subjected to sterile filtration. The 10 mg/ml OVA was diluted with cRPMI1640 culture medium to give 1 mg/ml OVA. A compound to be tested which was dissolved in DMSO in at 1,000-fold concentration was diluted up to 500-fold with cRPMI1640 culture medium containing 1 mg/ml OVA and added in 100 μl/well to the cells which had been planted on the previously mentioned 96-well plate (final concentration of OVA: 0.5 mg/ml). As the controls, the solutions were made by diluting DMSO of the same volume as with the test compounds with cRPMI1640 culture medium containing 1 mg/ml OVA, and they were added to the cells. These cells were cultured at 37 °C under 5%CO<sub>2</sub> atmosphere for 3 days.

IL-4 and IL-5 in the culture supernatants after 3 days were quantitatively determined by ELISA method. IL-4 and IL-5 were quantitatively determined using IL-4 Development Kit (Genzyme Techne) and mouse IL-5 MiniKit (ENDOGEN), respectively. The production inhibiting rates of each tested compound against IL-4 are shown in Table 22, those against IL-5 in Table 23.

Table 22

Example	IL-4 inhibiting activity IC <sub>50</sub> (μM)
48	0.1
51	0.1
131	0.2
31	0.01
129	0.1
61	0.2
62	0.1

Table 23

Example	IL-5 inhibiting activity IC <sub>50</sub> (μM)		
48	0.9		
131	1.4		
31	0.2		
129	1.7		
61	2.0		
62	1.4		

Medicament preparation example 1

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[0354] Tablets consisting of the following components were made according to the customary method.

Table 24

	Component	Amount(mg/tablet)
Component 1	Hydrochloride of the compound of Example 1	30
Component 2	Lactose	124.2
Component 3	Potato starch	40
Component 4	Hydroxypropyl cellulose	5

Table 24 (continued)

	Component	Amount(mg/tablet)
Component 5	Magnesium stearate	0.8
	Total	200 mg

Medicament preparation example 2

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[0355] Injection agents consisting of the following components were made according to the customary method.

Table 25

	Component	Amount per vial
Component 1	Hydrochloride of the compound of Example 37	10 mg
Component 2	Purified soybean oil	180 mg
Component 3	Purified egg yolk lecithin	25 mg
Component 4	Glycerine for injection use	50 mg
Component 5	Distilled water for injection use	2.70 ml
	Total	3.00 ml

[0356] All the publications, patents and patent applications cited herein are incorporated herein by reference in their entirety.

## **Industrial Applicability**

[0357] The quinazoline derivatives of the present invention have TNF- $\alpha$ , IL-4 and IL-5 production inhibiting action, and are useful for prevention or treatment of diseases which arise from the continuous or excess production of TNF- $\alpha$ , IL-4 or IL-5, such as rheumatoid arthritis, septic shock, inflammatory bowel diseases, osteoarthritis, multiple sclerosis, Behcet's disease, systemic lupus erythematodes (SLE), rejection at the time of the bone marrow transplantation, hepatitis, type II diabetes, asthma, allergic dematitis, allergic rhinitis and the like.

## Claims

1. A quinazoline derivative of the general formula (1) or a pharmaceutically acceptable salt thereof:

$$R^{2}$$
 $R^{1}$ 
 $R^{2}$ 
 $R^{3}$ 
 $R^{4}$ 
 $(1)$ 

[wherein R¹ represents nitro group or halogen atom; R² and R⁴ represent hydrogen atom, alkyl group having 1 to 4 carbon atoms, carboxyl group, or alkoxycarbonyl group having 2 to 5 carbon atoms; R³ represents hydrogen atom, amino group, unsubstituted or substituted alkyl group having 1 to 4 carbon atoms, alkanoyl group having 1 to 4 carbon atoms or alkoxycarbonyl group having 2 to 5 carbon atoms; W represents carbon atom or nitrogen atom; m represents 0 to 2; X represents a group represented by the following formula (a), (b) or (c):

$$A-N-\begin{pmatrix} CH \end{pmatrix}_{B}^{B} \qquad (a) \qquad A-N-\begin{pmatrix} CH_{2} \end{pmatrix}_{B} \qquad (b)$$

$$A-N-\begin{pmatrix} CH_{2} \end{pmatrix}_{B} \qquad (c)$$

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[wherein R<sup>5</sup> represents hydrogen atom, or unsubstituted or substituted alkyl group having 1 to 4 carbon atoms; R<sup>6</sup> represents hydrogen atom, unsubstituted or substituted alkyl group having 1 to 4 carbon atoms, hydroxyl group, unsubstituted or substituted aryl group, carboxyl group, or alkoxycarbonyl group having 2 to 5 carbon atoms (if n is two or more, each R<sup>6</sup> may be the same or different); n represents 0 to 3; W represents carbon atom or nitrogen atom; A represents a single bond to quinazoline ring; and B represents a single bond to Y]; Y represents, if X is represented by the formula (a), single bond or CH<sub>2</sub>, if X is represented by the formula (b), single bond, CO, CH<sub>2</sub>, CONH, CSNH or SO<sub>2</sub>, if X is represented by the formula (c), single bond, CO, CH<sub>2</sub> or SO<sub>2</sub>; and Z represents unsubstituted or substituted aryl group, or unsubstituted or substituted heteroaryl group.]

- 20 2. A compound according to Claim 1, wherein R<sup>1</sup> in the general formula (1) is nitro group or fluorine atom.
  - 3. A compound according to Claim 1, wherein R<sup>2</sup> and R<sup>4</sup> in the general formula (1) are hydrogen atom or alkyl group having 1 to 4 carbon atoms.
- 4. A compound according to Claim 1, wherein R3 in the general formula (1) R3 is hydrogen atom.
  - 5. A compound according to Claim 1, wherein W in the general formula (1) is nitrogen atom.
- A compound according to Claim 1, wherein X in the general formula (1) is represented by the formula (a), and R<sup>5</sup> and R<sup>6</sup> in the general formula (1) are hydrogen atom.
  - 7. A compound according to Claim 1, wherein n in the formula (a) is 1 or 2.
  - 8. A compound according to Claim 1, wherein X in the general formula (1) is represented by the formula (c).

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- 9. A compound according to Claim 1, wherein Z in the general formula (I) is phenyl, substituted phenyl, thienyl, furyl or pyridyl.
- A medicament comprising a quinazoline derivative according to Claim 1 or a pharmaceutically acceptable salt thereof as effective ingredient.
  - 11. A medicament for treating the diseases caused by the excess production of TNF-α, comprising a quinazoline derivative according to Claim 1 or a pharmaceutically acceptable salt thereof as effective ingredient.
- 45 12. A medicament for treating the diseases caused by the excess production of IL-4, comprising a quinazoline derivative according to Claim 1 or a pharmaceutically acceptable salt thereof as effective ingredient.
  - 13. A medicament for treating the diseases caused by the excess production of IL-5, comprising a quinazoline derivative according to Claim 1 or a pharmaceutically acceptable salt thereof as effective ingredient.

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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP00/06666

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl <sup>7</sup> C07D239/94, A61K31/517,					
Inc.	Int.Cl <sup>7</sup> C07D239/94, A61K31/517, C07D401/04, 401/12, 405/12, 409/12,				
4	A61P 37/06 According to International Patent Classification (IPC) or to both national classification and IPC				
	SEARCHED				
Minimum de	cumentation searched (classification system followed by	y classification symbols)			
Int.	C17 C07D239/94, A61K31/517, C07D401/00, 403/00, 405/00	. 409/00			
	on searched other than minimum documentation to the				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) CAPLUS, REGISTY (STN)					
C. DOCUI	MENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.		
A	EP, 566226, A1 (ZENECA Ltd.), 20 October, 1993 (20.10.93),		1-13		
	pp.51-52, EXAMPLES 72,73. & JP, 6-73025, A & US, 54571 & US, 5616582, A	.05, A			
A	QI CHAO, L. D. et al., "Substituted Isoquinolines and Quinazolines as Potential Antiinflammatory Agents"  Journal of Medicinal Chemistry; Vol.42 (No.19)  pp.3860-3873 (23 September, 1999)				
A	BRIDGES A. J. et. al., "Tyrosin Journal of Medicinal Chemist pp.267-276 (1996)	e Kinase Inhibitors 8.º cry; Vol.39 (No.1),	1-13		
Furthe	x documents are listed in the continuation of Box C.	See patent family annex.			
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